

LAND APPLICATION SITE

ROBERT E. GIBSON

KQREG 1 – 23, 25-28

KING AND QUEEN COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 10-31-17 between Robert E. Gibson Trustee referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in King & Queen Co. Essex Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
Tax Map 23-162R-1375	23-137R-1219		
K&Q 23-163R-1237	23-162L-983	Essex Co.	
" 23-163R-987	23-137L-1207	Tax Map 52-76	
" 24-53R-70	23-163R-996		
" 23-157L-646			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Robert E. Gibson Trustee Robert E. Gibson Trustee 26841 The Trail
Landowner - Printed Name, Title Signature Mailing Address & Phone Number Mattaponi Va. 23116

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>Stumbo</u>	<u>Stumbo</u>	<u>PO Box 562 Remington, Virginia 22734</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: King & Queen Co., Essex Co.
 Landowner: Robert E. Gibson Trustee

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days.
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Robert E. Gibson TRUSTEE
 Landowner's Signature

10-31-17
 Date

Robert E. Gibson
 Farm Operator Signature

26841 The Trail
Mattaponi, Va. 23110
 Mailing Address & Phone Number
804-785-2484

Robert E. Gibson Trustee
Landowner as shown on Deed

Power, Capacity and Authority. Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Robert E. Gibson
Signature

ROBERT E GIBSON
Printed Name of Signer

11-21-17
Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: King & Queen Co.
Essex Co.

Landowner: Nettie C. Gibson Trustee

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
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 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
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 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Nettie C. Gibson, Trustee
Landowner's Signature

10-31-17
Date

Bob E. Gibson
Nettie C. Gibson
Farm Operator Signature

26841 The Trail
Mathaponi, Va. 23110
Mailing Address & Phone Number
804-785-2484

Nettie C. Gibson Trustee
Landowner as shown on Deed

Power, Capacity and Authority. Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Nettie C. Gibson
Signature

Nettie C. Gibson
Printed Name of Signer

10/3/17
Date

FARM DATA SHEET

SITE NAME:	Robert E. Gibson	COUNTY:	King and Queen
OWNER:	Robert E. Gibson Trustee Nettie C. Gibson Trustee	OPERATOR:	Robert E. Gibson
OWNER'S ADDRESS:	26841 The Trail Mattaponi, VA 23110	OPERATOR'S ADDRESS:	26841 The Trail Mattaponi, VA 23110
OWNER'S TELEPHONE:	804-785-2484	OPERATOR'S TELEPHONE:	804-785-2484
GENERAL FARM TYPE:	Row Crops	CELL PHONE:	804-824-8946
# CATTLE:	None	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	F 1-3 37.787 F 4-8, 27 37.681 F 13 37.612 F 14-15 37.602 F 9-12, 28 37.612 F 16 37.614 17-19 37.588 F 20, 25-26 37.603 F 21, 23 37.607
TOPO QUAD:	King and Queen (F 4-8, 27) West Point (F 13-20, 25-26) Shackleford (F 9-12, 21-23, 28) Dunnsville (F 1-3)	LONGITUDE:	F 1-3 -76.800 F 4-8, 27 -76.895 F 13 -76.779 F 14-15 -76.767 F 16 -76.765 F 9-12, 28 -76.688 F 17-19 -76.761 F 20, 25-26 -76.746 F 21, 23 -76.726
COMMENTS:	METHOD OF DETERMINATION:		Online Maps
Gate Combination (Dile)			

[illegible]

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
KQREG 1	20.3	15B Nov.-Apr. 5D Nov.-Apr.	-	-	-	CB 06	1623-157L-646	T 2799 F 5, 9
KQREG 2	73.1	15B Nov.-Apr. 5D Nov.-Apr.	-	-	-	CB 06	1623-157L-646	T 2799 F 8, 9
KQREG 3	12.7	15B Nov.-Apr. 5D Nov.-Apr.	-	-	-	CB 06	1623-157L-646	T 2799 F 2
KQREG 4	5.2	15B Nov.-Apr. 20A Nov.-Apr.	-	-	-	CB 07	1623-53R-70	T 2050 F 9
KQREG 5	31.7	10A Dec.-Apr. 15B Nov.-Apr. 19A Dec.-Apr. 20A Nov.-Apr.	-	-	-	CB 07	1623-53R-70	T 2050 F 1
KQREG 6	30.0	10A Dec.-Apr. 19A Dec.-Apr. 19B Dec.-Apr.	-	-	-	CB 07	1623-53R-70	T 2050 F 14

3/5/20

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
KQREG 7	36.9	10A Dec.-Apr. 19A Dec.-Apr. 19B Dec.-Apr.	-	-	-	CB 07	1623-53R-70	T 2050 F 18, 19
KQREG 8	16.9	3B Dec.-Apr. 15B Nov.-Apr. 20A Nov.-Apr.	-	-	-	CB 07 CB 09	1623-53R-70	T 2050 F 20
KQREG 9	49.6	5D Nov.-Apr. 5E Nov.-Apr. 19B Dec.-Apr.	-	-	-	CB 09	1623-137R-1219	T 2288 F 1, 6
KQREG 10	23.9	5E Nov.-Apr.	-	-	-	CB 09	1623-137R-1219	T 2288 F 24
KQREG 11	21.6	5D Nov.-Apr. 5E Nov.-Apr.	-	-	-	CB 09	1623-137R-1219	T 2288 F 1, 3
KQREG 12	16.0	5E Nov.-Apr.	-	-	-	CB 09	1623-137R-1219	T 2288 F 4
KQREG 13	34.4	-	-	-	-	YO 61	1623-162L-983	T 137 F 1
KQREG 14	14.7	5E Nov.-Apr.	-	-	-	YO 61	1623-163R-987	T 428 F 2
KQREG 15	19.8	5E Nov.-Apr.	-	-	-	YO 61	1623-163R-987	T 428 F 2
KQREG 16	25.2	5E Nov.-Apr.	-	-	-	YO 61	1623-162R-1375	T 502 F 1

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
KQREG 17	63.4	5E Nov.-Apr. 15A Nov.-Apr. 15B Nov.-Apr.	-	-	-	YO 61	1623-163R-996	T 283 F 1
KQREG 18	11.4	5E Nov.-Apr.	-	-	-	YO 61	1623-163R-996	T 283 F 2
KQREG 19	17.9	5E Nov.-Apr. 15B Nov.-Apr.	-	-	-	YO 61	1623-163R-996	T 283 F 3, 4
KQREG 20	39.9	5D Nov.-Apr. 5E Nov.-Apr.	-	-	-	YO 61	1623-163R-1237	T 2543 F 1
KQREG 21	8.7	5D Nov.-Apr.	-	-	-	YO 61	1623-137L-1207	T 239 F 2
KQREG 22	16.8	5D Nov.-Apr.	-	-	-	YO 61	1623-137L-1207 1623-137L-1208	
KQREG 23	6.5	5D Nov.-Apr.	-	-	-	YO 61	1623-137L-1207	T 239 F 1
KQREG 25	20.3	5E Nov.-Apr.	-	-	-	YO 61	1623-163R-1237	T 2543 F 2
KQREG 26	23.8	5E Nov.-Apr. 15B Nov.-Apr.	-	-	-	YO 61	1623-163R-1237	T 2543 F 3
KQREG 27N	6.1	10A Dec.-Apr.	-	-	-	CB 07	1623-53R-70	T 2050 F 15
KQREG 28	20.8	5E Nov.-Apr. 5D Nov.-Apr.	-	-	-	CB 09	1623-137R-1219	T 2288 F 23
TOTAL ACRES IN SITE	667.6							

FIELD CHANGES
ROBERT E. GIBSON
KING AND QUEEN COUNTY

Field #7 now includes part of old Field #6.

Field #8 now includes part of old Field #30.

Field #9 now includes all of old Field #27.

Field #15 now includes all of old Field #15A.

Field #27 is a new field being part of old Field #5.

Field Changes

Robert Gibson

Old Field

KQREG 5	split into KQREG 5 and NEW KQREG 27
KQREG 6	portion combined into KQREG 7
KQREG 7	increased with portion from KQREG 6
KQREG 8	increased with portion from KQREG 8
KQREG 9	combined KQREG 9 and OLD KQREG 27
KQREG 15	combined with KQREG 15A
KQREG 15A	gone
KQREG 27	combined into field KQREG 9
KQREG 27	new KQREG 27 split from portion KQREG 5
KQREG 29	gone
KQREG 30	portion to KQREG 8, remainder gone

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator

Robert E. Gibson
26841 The Trail
Mattaponi, VA 23110
804-824-8946

Integrator:None

Farm Coordinates

Easting: 0, Northing: 0, zone: 17

Watershed Summary

watershed: CB06
county: King & Queen

Nutrient Management Planner

John Doe
123 Main St.
Suite #5
Blacksburg, VA 24060

Certification Code: 103

Acreage Use Summary

Total Acreage in this plan: 667.5

Cropland: 667.5
Hayland: 0.
Pasture: 0.
Specialty: 0.

Livestock Summary

Beef Cattle 0
Dairy Cattle 0
Poultry 0
Swine 0
Other 0

Manure Production Balance

	Imported	Produced	Exported	Used	Net
kgals	0.	0.	0.	0.	0.
tons	0.	0.	0.	0.	0.

Plan written 11/30/2017

Valid until 11/30/2019

Signature: _____
Planner date

Nutrient Management Plan Balance Sheet
(Fall, 2017-Winter, 2019)
Robert E. Gibson
Planner: John Doe (cert. No. 103)

Tract: 137 Location: King & Queen
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/KQREG 13(N)	34/34	2017 2018	Wheat (grain)	100-60-60 - - - -	0/0				100-60-60	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress
Notes:

Tract: 239

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
2/KQREG 21(N)	9/9	2017 2018	Wheat (grain)	100-30-80 -- --	0/0				100-30-80	N/A			
3/KQREG 22(N)	17/17	2017 2018	Wheat (grain)	100-30-80 -- --	0/0				100-30-80	N/A			
1/KQREG 23(N)	7/7	2017 2018	Wheat (grain)	100-40-80 -- --	0/0				100-40-80	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 283

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/KQREG 17(N)	63/63	2017 2018	Wheat (grain)	100-30-80	20/0				80-30-80	N/A			
		 Soybeans (DC)	0-30-80	0/0				0-60-160	N/A			
2/KQREG 18(N)	11/11	2017 2018	Wheat (grain)	100-40-60	20/0				80-40-60	N/A			
		 Soybeans (DC)	0-40-60	0/0				0-80-120	N/A			
3, 4/KQREG 19(N)	18/18	2017 2018	Wheat (grain)	100-30-80	20/0				80-30-80	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 428

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
2/KQREG 14(N)	15/15	2017 2018	Wheat (grain)	100-30-80 -- --	0/0				100-30-80	N/A			
2/KQREG 15(N)	20/20	2017 2018	Wheat (grain)	100-60-60 -- --	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 502 Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/KQREG 16(N)	25/25	2017 2018	Wheat (grain)	100-40-60 - - - -	0/0				100-40-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2050 Location: King & Queen
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
9/KQREG 4(N)	5/5	2017 2018	Wheat (grain) *** **	100-80-100 --- --	0/0				100-80-100	N/A			
1/KQREG 5(N)	32/32	2017 2018	Wheat (grain) *** **	100-30-80 --- --	0/0				100-30-80	N/A			
14/KQREG 6(N)	30/30	2017 2018	Wheat (grain) *** **	100-40-80 --- --	0/0				100-40-80	N/A			
18, 19/KQREG 7(N)	37/37	2017 2018	Wheat (grain) *** **	100-20-80 --- --	0/0				100-20-80	N/A			
20/KQREG 8(1P)	17/17	2017 2018	Wheat (grain) *** **	100-0-80 --- --	0/0				100-0-80	26			
15/KQREG 27(N)	6/6	2017 2018	Wheat (grain) *** **	100-30-80 --- --	0/0				100-30-80	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2288

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1, 6/KQREG 9(N)	50/50	2017 2018	Wheat (grain)	100-40-80 ---	0/0				100-40-80	N/A			
24/KQREG 10(N)	24/24	2017 2018	Wheat (grain)	100-60-60 ---	0/0				100-60-60	N/A			
1, 3/KQREG 11(N)	22/22	2017 2018	Wheat (grain)	100-60-60 ---	0/0				100-60-60	N/A			
4/KQREG 12(N)	16/16	2017 2018	Wheat (grain)	100-60-60 ---	0/0				100-60-60	N/A			
23/KQREG 28(N)	21/21	2017 2018	Wheat (grain)	100-60-60 ---	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2543 Location: King & Queen
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/KQREG 20(N)	40/40	2017 2018	Wheat (grain)	100-20-80	20/0				80-20-80	N/A			
		 Soybeans (DC)	0-20-80	0/0				0-40-160	N/A			
2/KQREG 25(N)	20/20	2017 2018	Wheat (grain)	100-60-80	20/0				80-60-80	N/A			
		 Soybeans (DC)	0-60-80	0/0				0-120-160	N/A			
3/KQREG 26(N)	24/24	2017 2018	Wheat (grain)	100-40-80	20/0				80-40-80	N/A			
		 Soybeans (DC)	0-40-80	0/0				0-80-160	N/A			

Commercial Application Methods:
 br - Broadcast ba - Banded sd - Sidedress
 Notes:

Tract: 2799

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
5, 9/KQREG 1(N)	20/20	2017 2018	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		 Soybeans (DC)	--- -- 0-60-60	0/0				0-120-120	N/A			
8, 9/KQREG 2(N)	73/73	2017 2018	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		 Soybeans (DC)	--- -- 0-60-60	0/0				0-120-120	N/A			
2/KQREG 3(N)	13/13	2017 2018	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		 Soybeans (DC)	--- -- 0-60-60	0/0				0-120-120	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
137	KQREG 13	34	[No Test]						
239	KQREG 21	9	2016-Fa	H (73 P ppm)	L+ (48 K ppm)	A&L MIII	6.3		
239	KQREG 22	17	2016-Fa	H (79 P ppm)	M- (63 K ppm)	A&L MIII	6.6		
239	KQREG 23	7	2016-Fa	H- (67 P ppm)	L+ (44 K ppm)	A&L MIII	6.3		
283	KQREG 17	64	2016-Fa	H (91 P ppm)	M- (63 K ppm)	A&L MIII	6.4		
283	KQREG 18	11	2016-Fa	H- (47 P ppm)	M (85 K ppm)	A&L MIII	6.2		
283	KQREG 19	17	2016-Fa	H (77 P ppm)	L+ (47 K ppm)	A&L MIII	6.3		
428	KQREG 14	14	2016-Fa	H (70 P ppm)	M- (62 K ppm)	A&L MIII	6.3		
428	KQREG 15	20	[No Test]						
502	KQREG 16	25	2016-Fa	H- (58 P ppm)	M (85 K ppm)	A&L MIII	5.5		
2050	KQREG 4	4	2016-Fa	L+ (20 P ppm)	L (28 K ppm)	A&L MIII	5.5		
2050	KQREG 5	32	2016-Fa	H (92 P ppm)	L+ (46 K ppm)	A&L MIII	5.9		
2050	KQREG 6	27	2016-Fa	H- (52 P ppm)	L+ (49 K ppm)	A&L MIII	6.2		
2050	KQREG 7	39	2016-Fa	H+ (109 P ppm)	M- (59 K ppm)	A&L MIII	6.		
2050	KQREG 8	18	2016-Fa	VH (130 P ppm)	M- (65 K ppm)	A&L MIII	6.5		
2050	KQREG 27	8	2016-Fa	H (92 P ppm)	L+ (46 K ppm)	A&L MIII	5.9		
2288	KQREG 9	50	2016-Fa	H- (63 P ppm)	L+ (47 K ppm)	A&L MIII	5.7		
2288	KQREG 10	24	[No Test]						
2288	KQREG 11	21	[No Test]						
2288	KQREG 12	16	[No Test]						
2288	KQREG 28	21	[No Test]						
2543	KQREG 20	41	2016-Fa	H+ (124 P ppm)	L+ (50 K ppm)	A&L MIII	6.4		
2543	KQREG 25	20	2016-Fa	M (35 P ppm)	M- (63 K ppm)	A&L MIII	6.2		
2543	KQREG 26	25	2016-Fa	H- (49 P ppm)	L+ (47 K ppm)	A&L MIII	6.3		
2799	KQREG 1	20	[No Test]						
2799	KQREG 2	71	[No Test]						
2799	KQREG 3	13	[No Test]						



Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
137	137/1	KQREG 13	34	Emporia	IIIa	II	III	II	
239	239/2	KQREG 21	9	Emporia	IIIa	II	III	II	
	239/3	KQREG 22	17	Emporia	IIIa	II	III	II	
	239/1	KQREG 23	7	Emporia	IIIa	II	III	II	
283	283/1	KQREG 17	64	Emporia	IIIa	II	III	II	
	283/2	KQREG 18	11	Emporia	IIIa	II	III	II	
	283/3, 4	KQREG 19	17	Emporia	IIIa	II	III	II	
428	428/2	KQREG 14	14	Emporia	IIIa	II	III	II	
	428/2	KQREG 15	20	Emporia	IIIa	II	III	II	
502	502/1	KQREG 16	25	Emporia	IIIa	II	III	II	
2050	2050/9	KQREG 4	4	Slagle	IIb	II	III	II	
	2050/1	KQREG 5	32	Munden	IIa	I	III	II	
	2050/14	KQREG 6	27	Tetotum	IIb	I	III	I	
	2050/18, 19	KQREG 7	39	State1	IIIa	III	III	III	
	2050/20	KQREG 8*	18	Tarboro	IVb	III	Not Suited	IV	High Leaching
	2050/15	KQREG 27	8	Munden	IIa	I	III	II	
2288	2288/1, 6	KQREG 9	50	Emporia	IIIa	II	III	II	
	2288/24	KQREG 10	24	Emporia	IIIa	II	III	II	
	2288/1, 3	KQREG 11	21	Emporia	IIIa	II	III	II	
	2288/4	KQREG 12*	16	Tarboro	IVb	III	Not Suited	Not Suited	High Leaching, High Slope
	2288/23	KQREG 28*	21	Emporia	IVb	III	III	IV	High Leaching, High Slope
2543	2543/1	KQREG 20	41	Emporia	IIIa	II	III	II	
	2543/2	KQREG 25	20	Emporia	IIIa	II	III	II	
	2543/3	KQREG 26	25	Emporia	IIIa	II	III	II	
2799	2799/5, 9	KQREG 1	20	Emporia	IIIa	II	III	II	
	2799/8, 9	KQREG 2	71	Emporia	IIIa	II	III	II	
	2799/2	KQREG 3	13	Emporia	IIIa	II	III	II	

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Fall, 2017 - Winter, 2019**

Farm Name: **Robert E. Gibson**

Location: King & Queen

Specialist: John Doe

N-based Acres: 647.4

P-based Acres: 17.5

Tract Name: **137**

FSA Number: 137

Location: King & Queen

Field Name: **KQREG 13**

Total Acres: 34.00 Usable Acres: 34.00

FSA Number: 1

Tract: 137

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
28	4A	Emporia
71	4B	Emporia
1	5E	Emporia Slagle

Field Warnings:

Tract Name: 239
FSA Number: 239
Location: King & Queen

Field Name: KQREG 21
Total Acres: 8.60 **Usable Acres:** 8.60
FSA Number: 2
Tract: 239
Location: King & Queen
Slope Class: B **Hydrologic Group:** C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.3	H(73 P ppm)	L+(48 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
96	4B	Emporia
4	5D	Emporia Slagle

Field Warnings:

Field Name: KQREG 22
Total Acres: 16.60 **Usable Acres:** 16.60
FSA Number: 3
Tract: 239
Location: King & Queen
Slope Class: B **Hydrologic Group:** C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.6	H(79 P ppm)	M-(63 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
94	4B	Emporia
6	5D	Emporia Slagle

Field Warnings:

Field Name: KQREG 23

Total Acres: 7.00 Usable Acres: 7.00

FSA Number: 1

Tract: 239

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.3	H-(67 P ppm)	L+(44 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
85	4B	Emporia
15	5D	Emporia Slagle

Field Warnings:**Tract Name: 283**

FSA Number: 283

Location: King & Queen

Field Name: KQREG 17

Total Acres: 63.50 Usable Acres: 63.50

FSA Number: 1

Tract: 283

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.4	H(91 P ppm)	M-(63 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
32	4A	Emporia
49	4B	Emporia
5	5E	Emporia Slagle
6	15A	Slagle
8	15B	Slagle

Field Warnings:

Field Name: KQREG 18

Total Acres: 10.80 Usable Acres: 10.80

FSA Number: 2

Tract: 283

Location: King & Queen

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.2	H-(47 P ppm)	M(85 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
8	4A	Emporia
45	4B	Emporia
37	4C	Emporia
11	5E	Emporia Slagle

Field Warnings:

Field Name: KQREG 19

Total Acres: 17.00 Usable Acres: 17.00

FSA Number: 3, 4

Tract: 283

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.3	H(77 P ppm)	L+(47 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
8	4A	Emporia
73	4B	Emporia
11	5E	Emporia Slagle
8	15B	Slagle

Field Warnings:

Tract Name: 428

FSA Number: 428

Location: King & Queen

Field Name: KQREG 14

Total Acres: 13.50 Usable Acres: 13.50

FSA Number: 2

Tract: 428

Location: King & Queen

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2016	6.3	H(70 P ppm)	M-(62 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
85	4B	Emporia
14	5E	Emporia Slagle
1	15B	Slagle

Field Warnings:

Field Name: KQREG 15

Total Acres: 19.80 Usable Acres: 19.80

FSA Number: 2

Tract: 428

Location: King & Queen

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
87	4B	Emporia
13	5E	Emporia Slagle

Field Warnings:

Tract Name: 502

FSA Number: 502

Location: King & Queen

Field Name: KQREG 16

Total Acres: 24.50 Usable Acres: 24.50

FSA Number: 1

Tract: 502

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	5.5	H-(58 P ppm)	M(85 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
26	4A	Emporia
57	4B	Emporia
9	4C	Emporia
8	5E	Emporia Slagle

Field Warnings:

Tract Name: 2050

FSA Number: 2050

Location: King & Queen

Field Name: KQREG 4

Total Acres: 3.60 Usable Acres: 3.60

FSA Number: 9

Tract: 2050

Location: King & Queen
Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	5.5	L+(20 P ppm)	L(28 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
77	15B	Slagle
23	20A	Tomotley

Field Warnings:

Field Name: KQREG 5

Total Acres: 31.70 Usable Acres: 31.70

FSA Number: 1

Tract: 2050

Location: King & Queen

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
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Fa-2016 5.9 H(92 P ppm) L+(46 K ppm) A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	5D	Emporia Slagle
38	10A	Munden
15	15B	Slagle
27	16B	State1
8	19A	Tetotum
9	20A	Tomotley

Field Warnings:

Field Name: **KQREG 6**

Total Acres: 27.00 Usable Acres: 27.00

FSA Number: 14

Tract: 2050

Location: King & Queen

Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.2	H-(52 P ppm)	L+(49 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
16	10A	Munden
3	16A	State1
80	19A	Tetotum
2	20A	Tomotley

Field Warnings:

Field Name: KQREG 7

Total Acres: 39.40 Usable Acres: 39.40

FSA Number: 18, 19

Tract: 2050

Location: King & Queen

Slope Class: A Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.0	H+(109 P ppm)	M-(59 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
18	10A	Munden
42	16A	State1
4	19A	Tetotum
5	19B	Tetotum
32	20A	Tomotley

Field Warnings:

Field Name: KQREG 8

Total Acres: 17.50 Usable Acres: 17.50

FSA Number: 20

Tract: 2050

Location: King & Queen

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.5	VH(130 P ppm)	M-(65 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
15	3B	Craven
12	15B	Slagle
18	16B	State1
45	18B	Tarboro
11	20A	Tomotley

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Field Name: KQREG 27

Total Acres: 7.70 Usable Acres: 7.70

FSA Number: 15

Tract: 2050

Location: King & Queen

Slope Class: A Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	5.9	H(92 P ppm)	L+(46 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
94	10A	Munden
6	20A	Tomotley

Field Warnings:

Tract Name: 2288
FSA Number: 2288
Location: King & Queen

Field Name: KQREG 9
Total Acres: 49.50 **Usable Acres:** 49.50
FSA Number: 1, 6
Tract: 2288
Location: King & Queen
Slope Class: C **Hydrologic Group:** C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	5.7	H-(63 P ppm)	L+(47 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
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59	4B	Emporia
26	5D	Emporia Slagle
15	19B	Tetotum

Field Warnings:

Field Name: KQREG 10

Total Acres: 23.70 Usable Acres: 23.70

FSA Number: 24

Tract: 2288

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
92	4B	Emporia
2	5D	Emporia Slagle
5	5E	Emporia Slagle

Field Warnings:

Field Name: KQREG 11

Total Acres: 21.00 Usable Acres: 21.00

FSA Number: 1, 3

Tract: 2288

Location: King & Queen

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
74	4B	Emporia
12	5D	Emporia Slagle
13	5E	Emporia Slagle
1	18B	Tarboro

Field Warnings:

Field Name: KQREG 12

Total Acres: 16.40 Usable Acres: 16.40

FSA Number: 4

Tract: 2288

Location: King & Queen

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
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[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
13	4B	Emporia
10	5E	Emporia Slagle
78	18B	Tarboro

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with percent slope in excess of 15%

Field Name: KQREG 28

Total Acres: 20.50 Usable Acres: 20.50

FSA Number: 23

Tract: 2288

Location: King & Queen

Slope Class: D Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
53	5D	Emporia Slagle

12	5E	Emporia Slagle
36	18B	Tarboro

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Tract Name: 2543

FSA Number: 2543

Location: King & Queen

Field Name: KQREG 20

Total Acres: 41.20 Usable Acres: 41.20

FSA Number: 1

Tract: 2543

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.4	H+(124 P ppm)	L+(50 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
25	4A	Emporia
67	4B	Emporia
9	5E	Emporia Slagle

Field Warnings:

Field Name: KQREG 25

Total Acres: 20.30 Usable Acres: 20.30

FSA Number: 2

Tract: 2543

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.2	M(35 P ppm)	M-(63 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
27	4A	Emporia
66	4B	Emporia
8	5E	Emporia Slagle

Field Warnings:

Field Name: KQREG 26

Total Acres: 25.40 Usable Acres: 25.40

FSA Number: 3

Tract: 2543

Location: King & Queen

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2016	6.3	H-(49 P ppm)	L+(47 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
74	4B	Emporia
15	5E	Emporia Slagle
11	15B	Slagle

Field Warnings:

Tract Name: 2799

FSA Number: 2799

Location: King & Queen

Field Name: KQREG 1

Total Acres: 20.30 Usable Acres: 20.30

FSA Number: 5, 9

Tract: 2799

Location: King & Queen

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
------	----	---	---	--	-----

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
53	4B	Emporia
26	5D	Emporia Slagle
21	15B	Slagle

Field Warnings:

Field Name: KQREG 2

Total Acres: 71.30 Usable Acres: 71.30

FSA Number: 8, 9

Tract: 2799

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
24	4A	Emporia
41	4B	Emporia
23	5D	Emporia Slagle
12	15B	Slagle

Field Warnings:

Field Name: KQREG 3

Total Acres: 13.10 Usable Acres: 13.10

FSA Number: 2

Tract: 2799

Location: King & Queen

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
19	15B	Slagle
71	4B	Emporia
11	5D	Emporia Slagle

Field Warnings:**Tract Name: Default Tract**

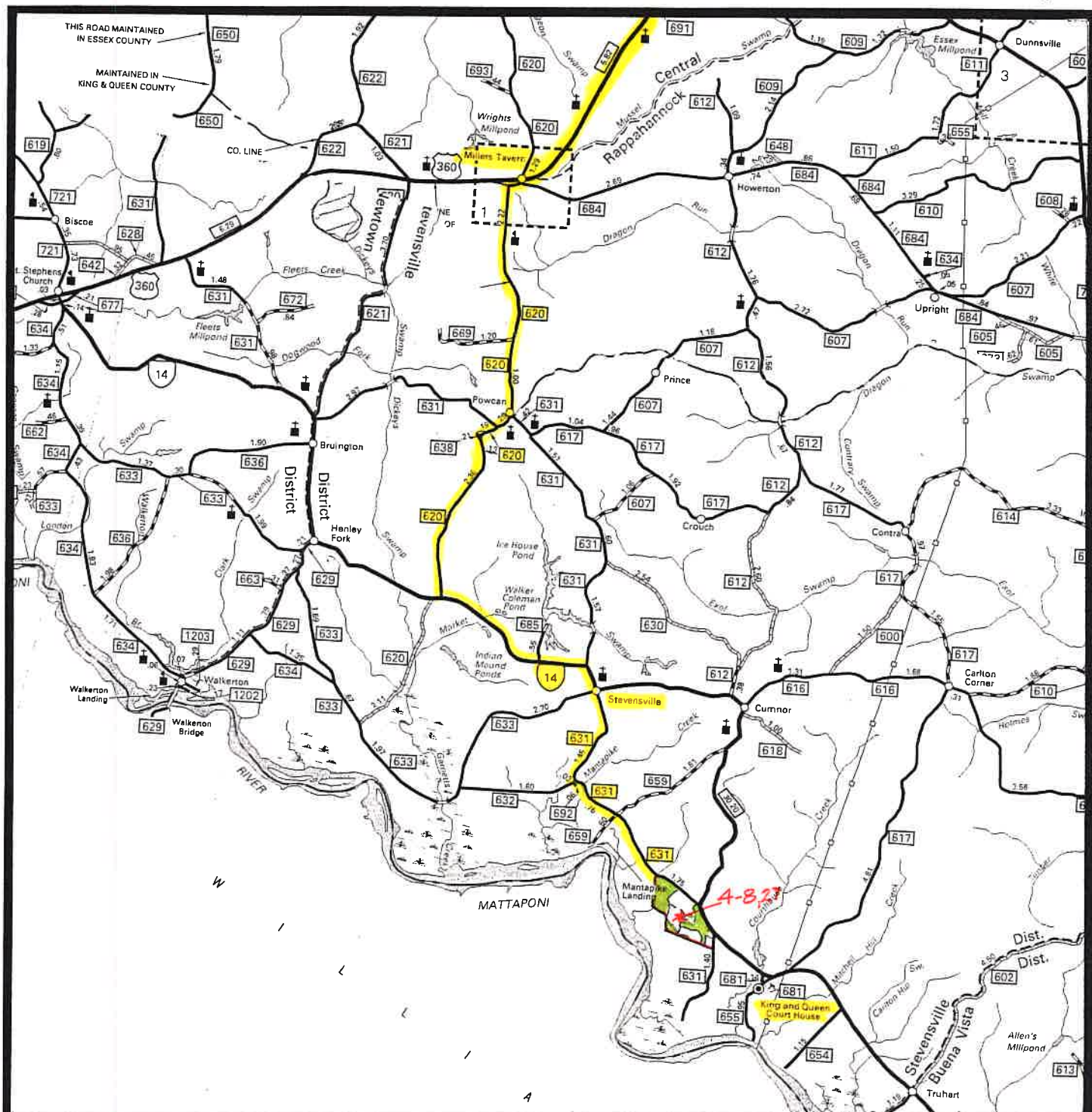
FSA Number: 0

Location: King & Queen

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



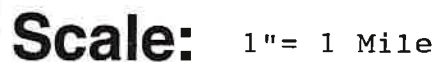
Scale: 1" = 2 miles

KQREG 4-8,27

VICINITY MAP



(Biosolids Land Application)



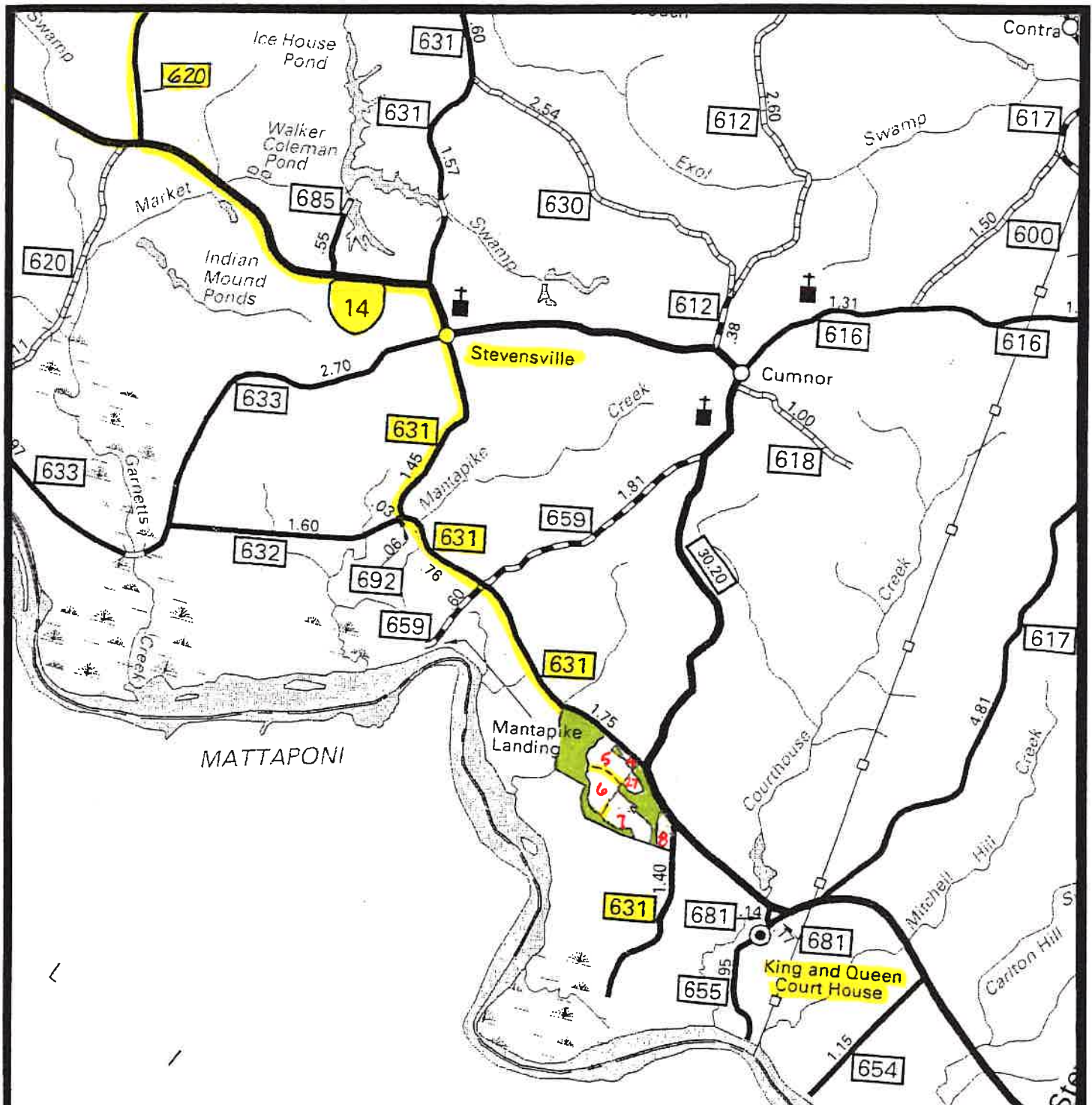
KQREG 1-3

VICINITY MAP



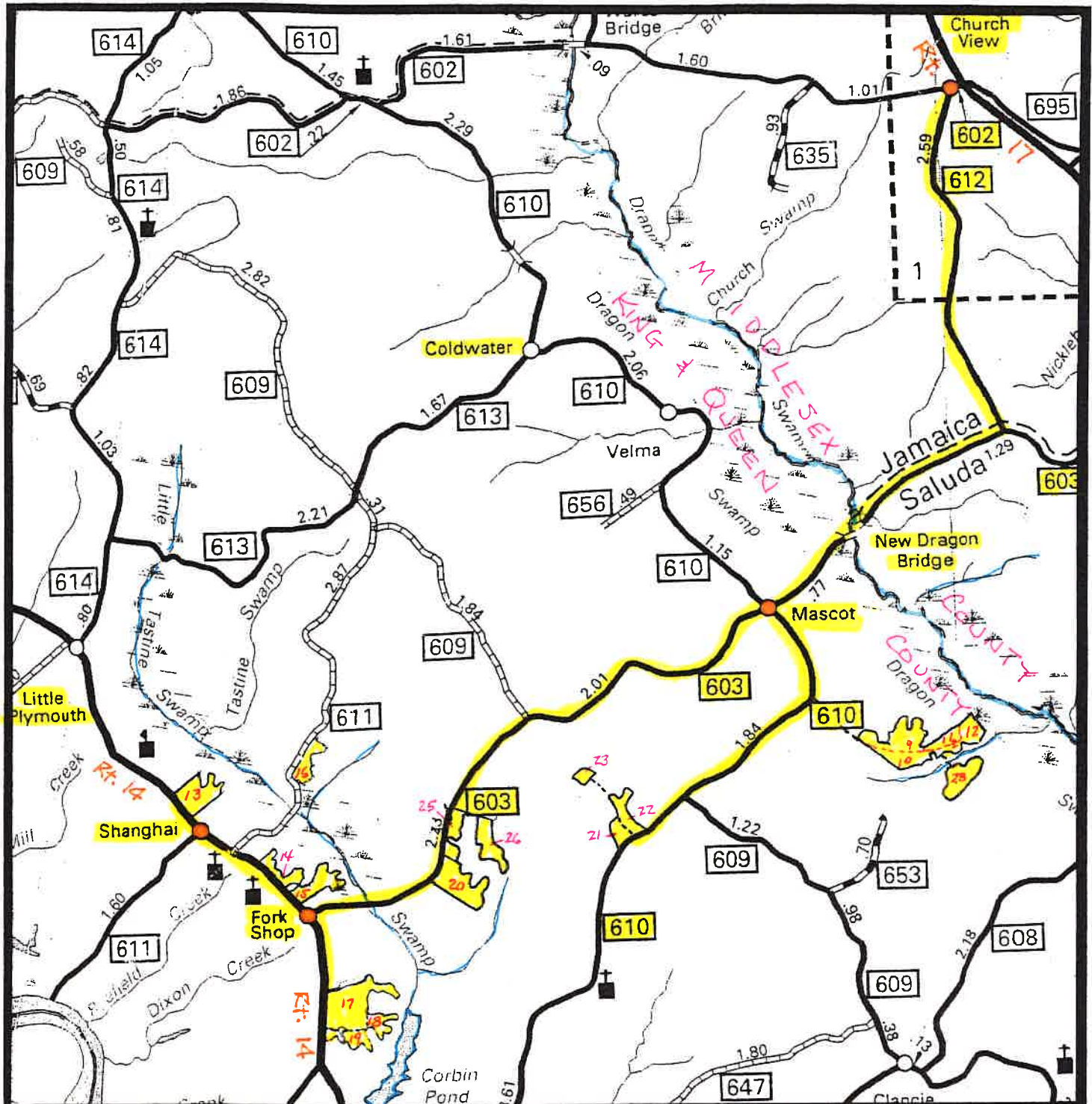
Recyc SystemsTM Inc.

(Biosolids Land Application)



Recyc SystemsTM Inc.

(Biosolids Land Application)

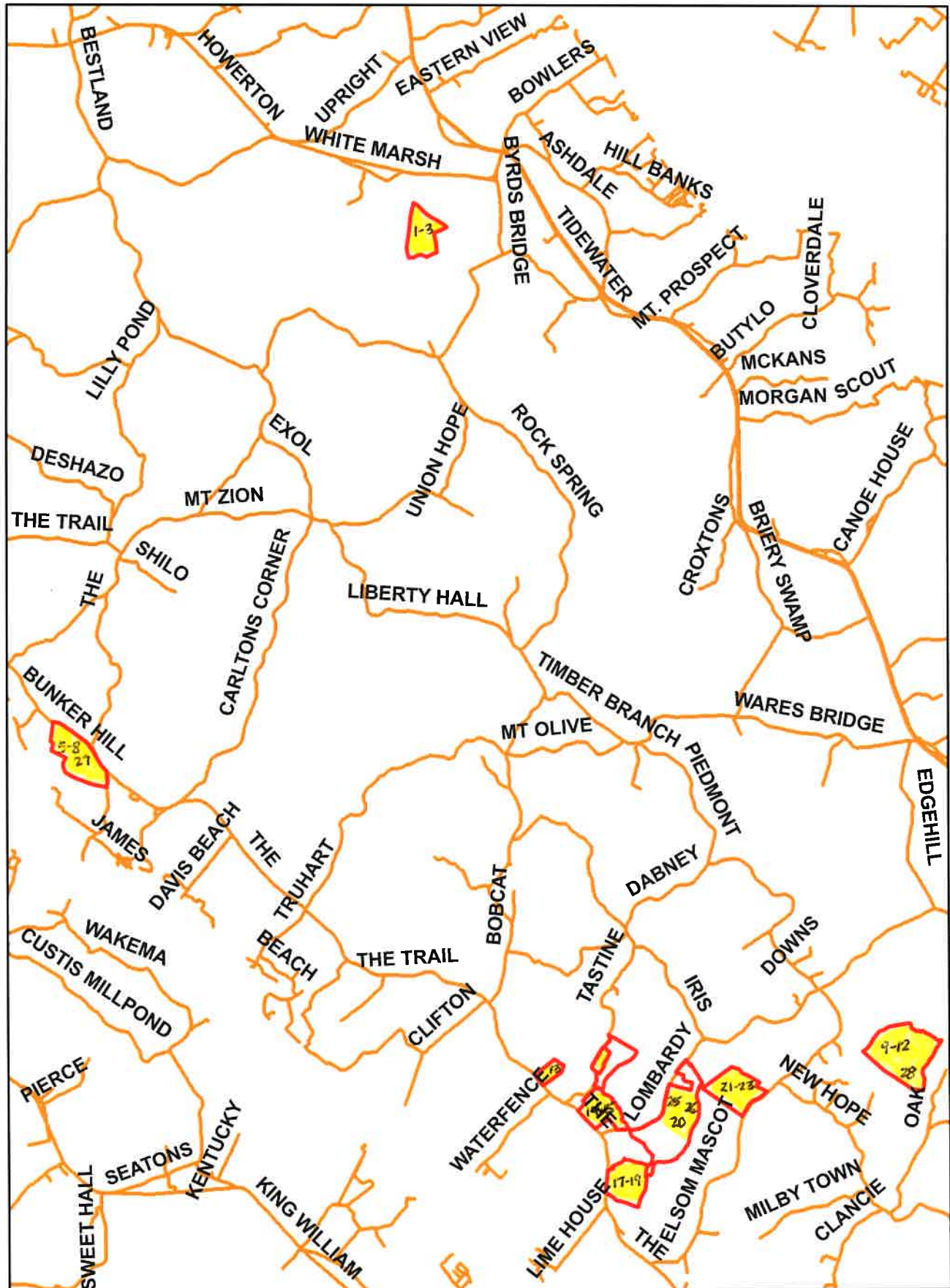


Scale: 1" = 1 mile

KQREG 9-23, 25, 26, 28

VICINITY MAP

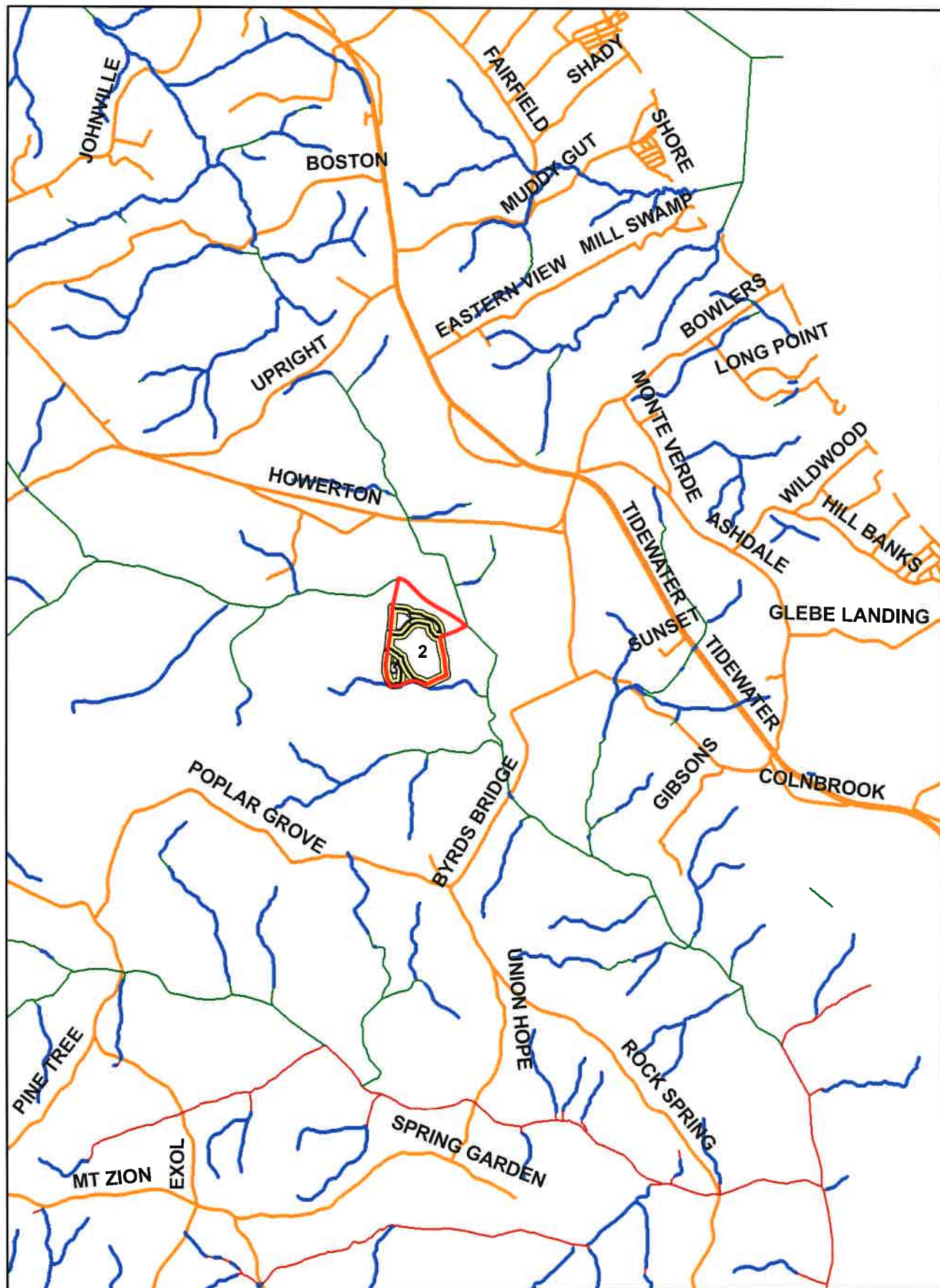




VICINITY MAP

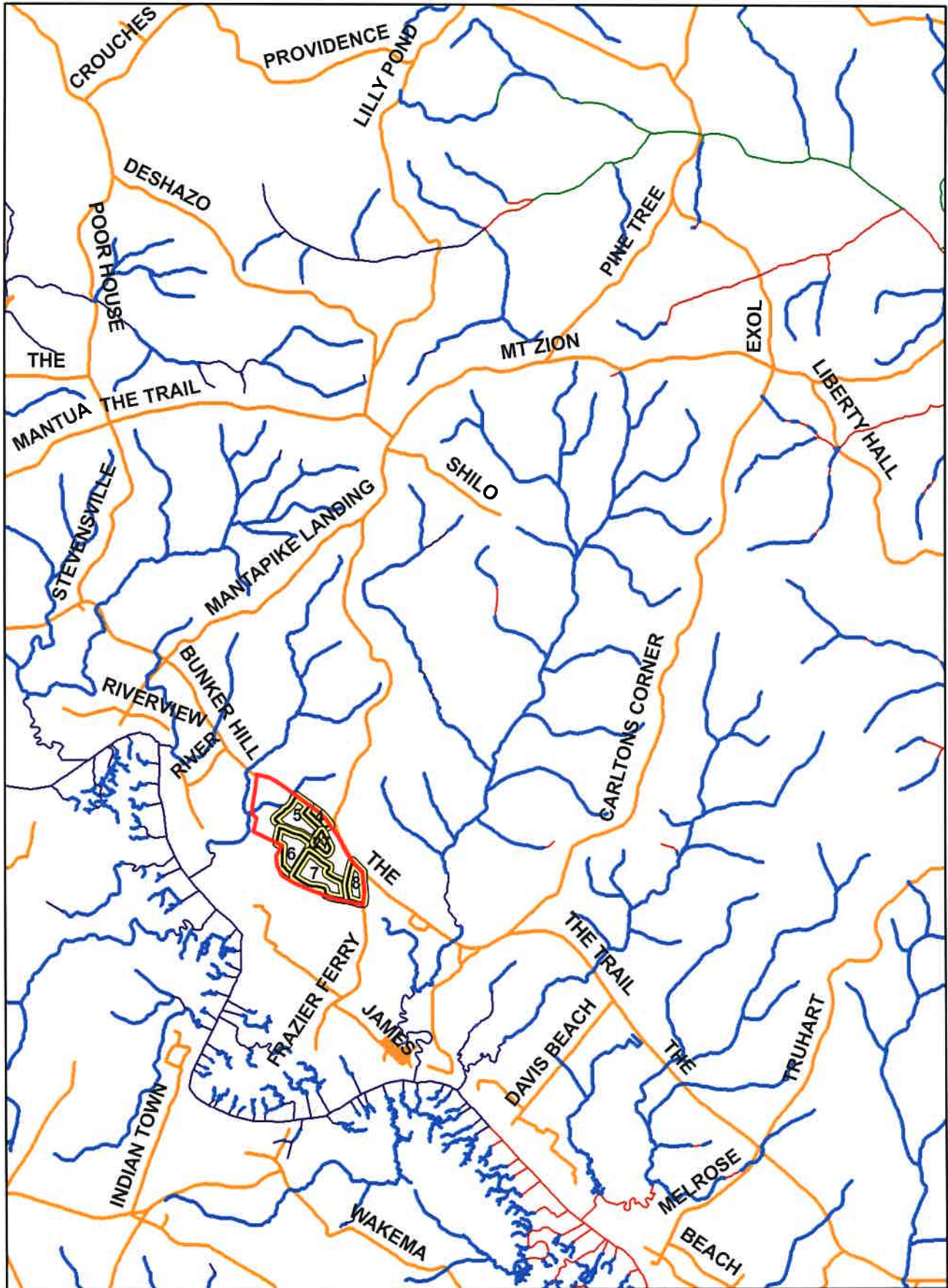
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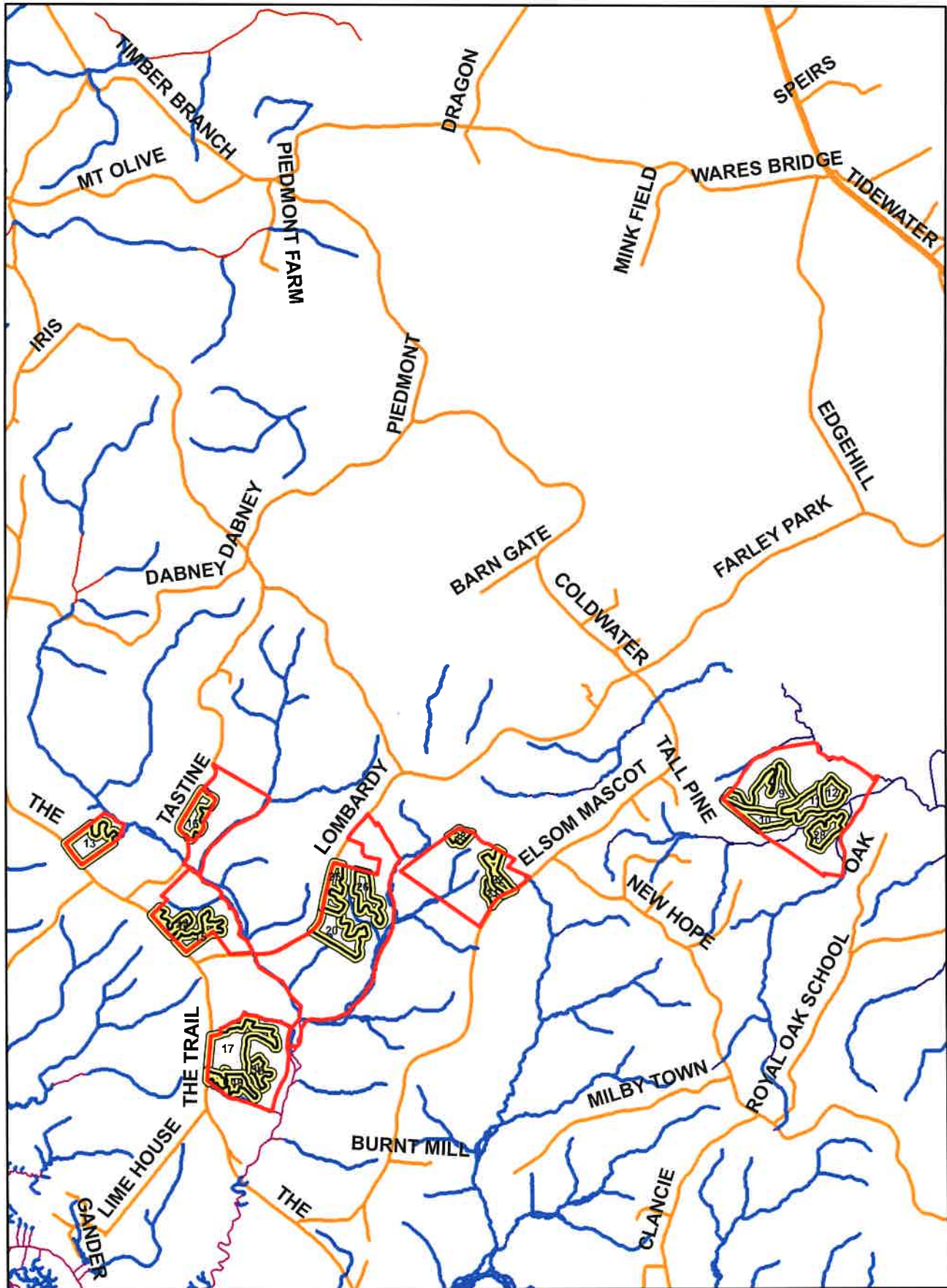
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1 in = 1 miles



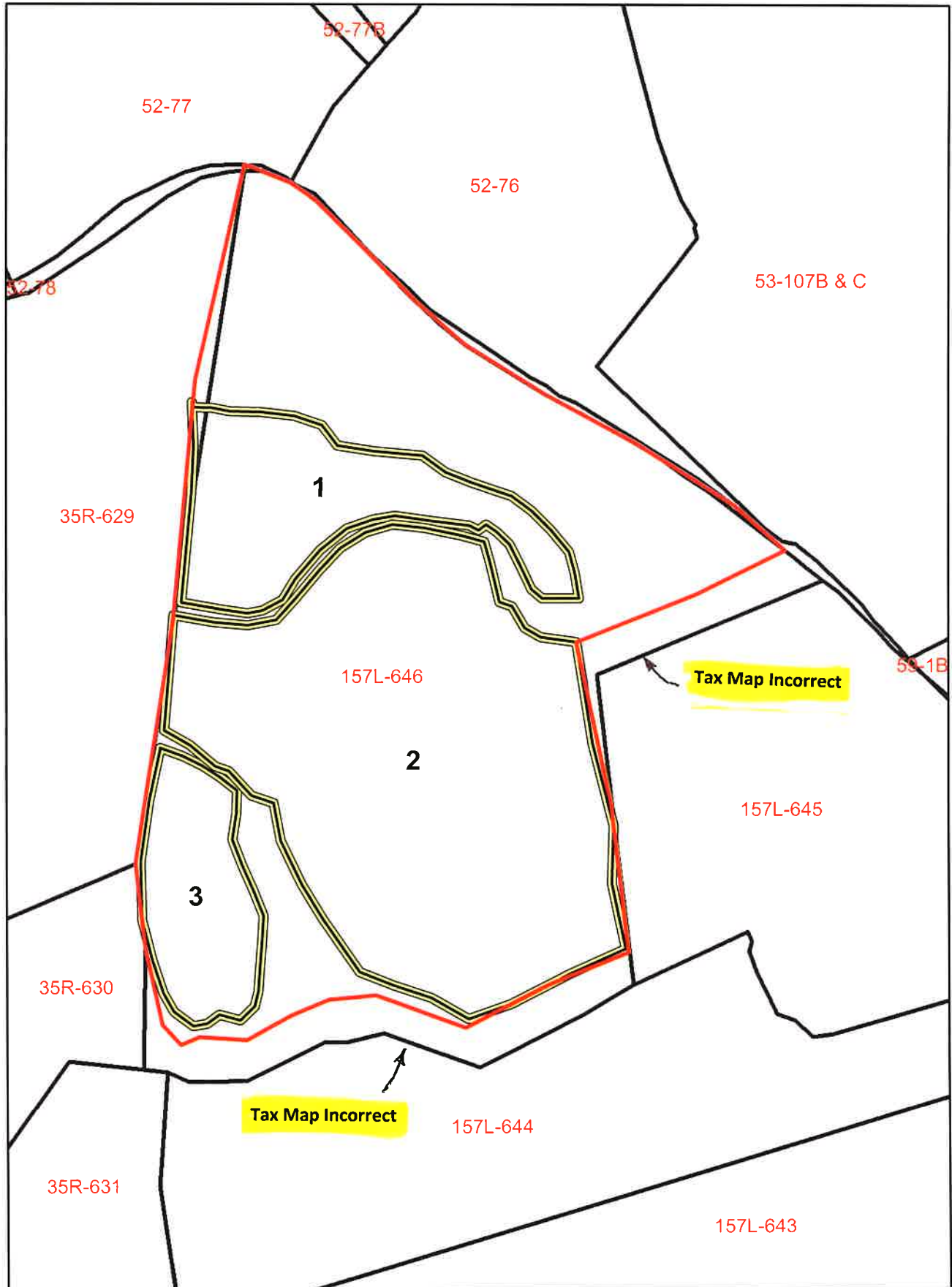
VICINITY MAP

1 in = 1 miles



VICINITY MAP

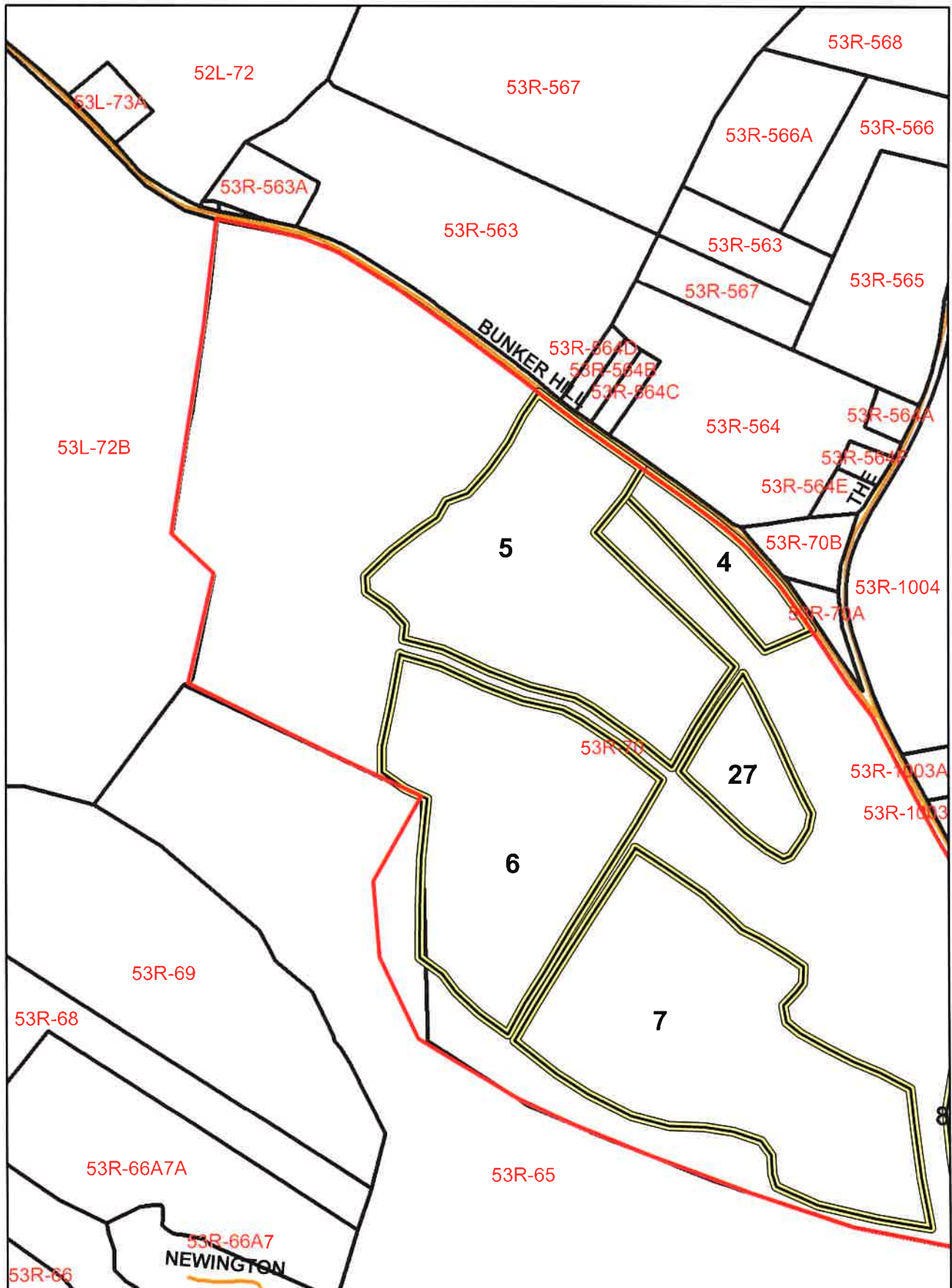
1 in = 1 miles



TAX MAP

1 in = 660 feet





TAX MAP

1 in = 660 feet

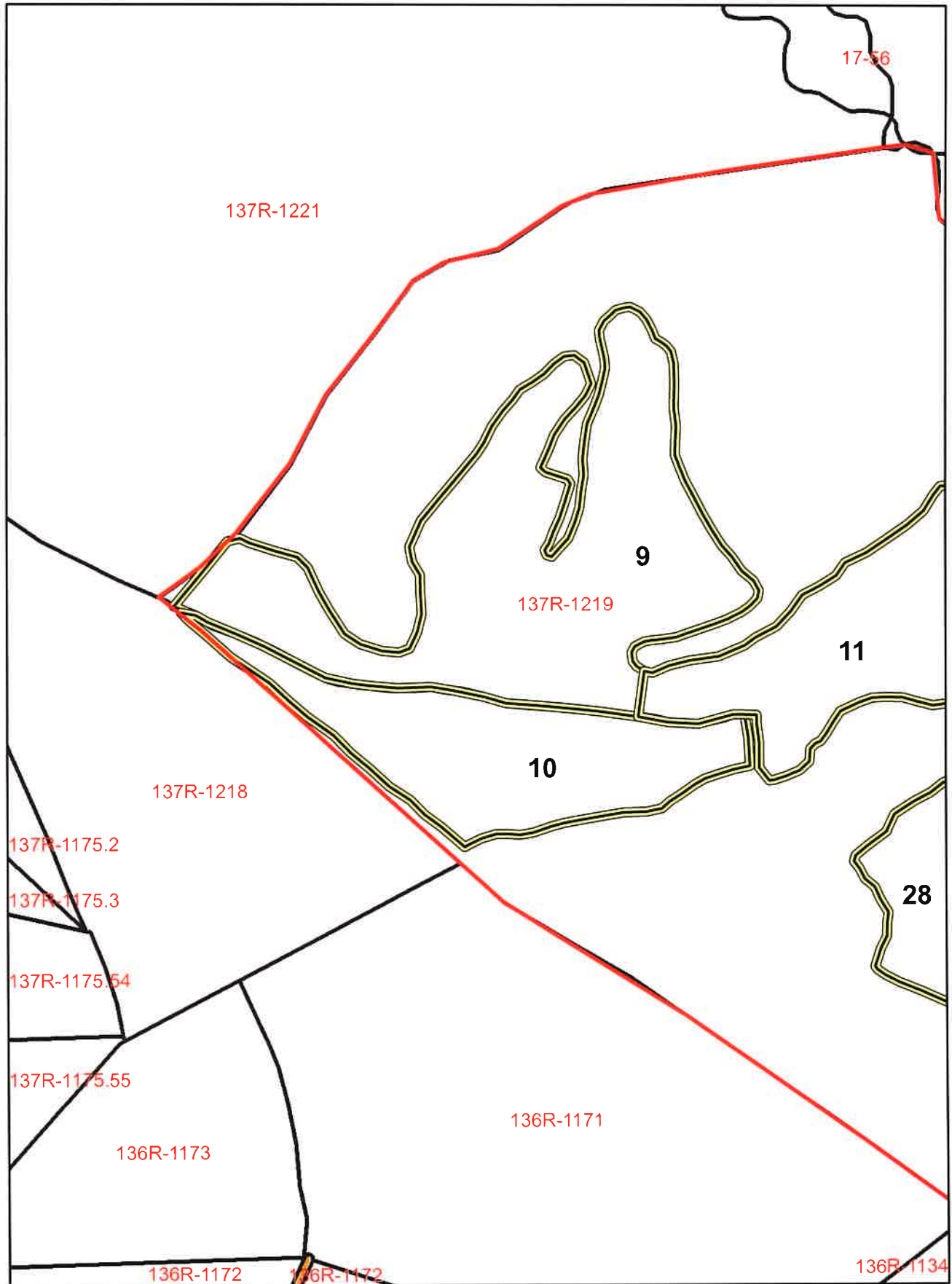




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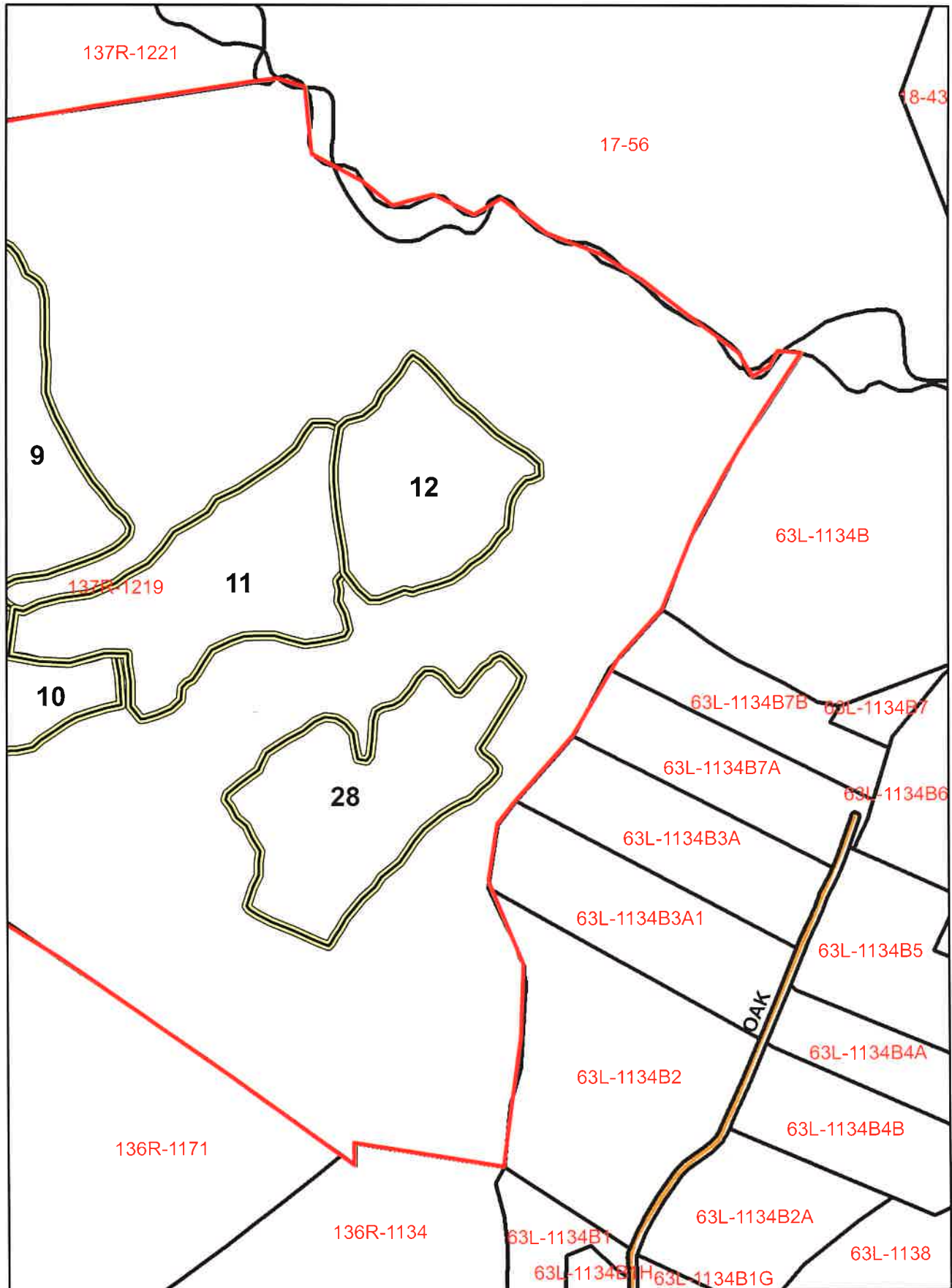
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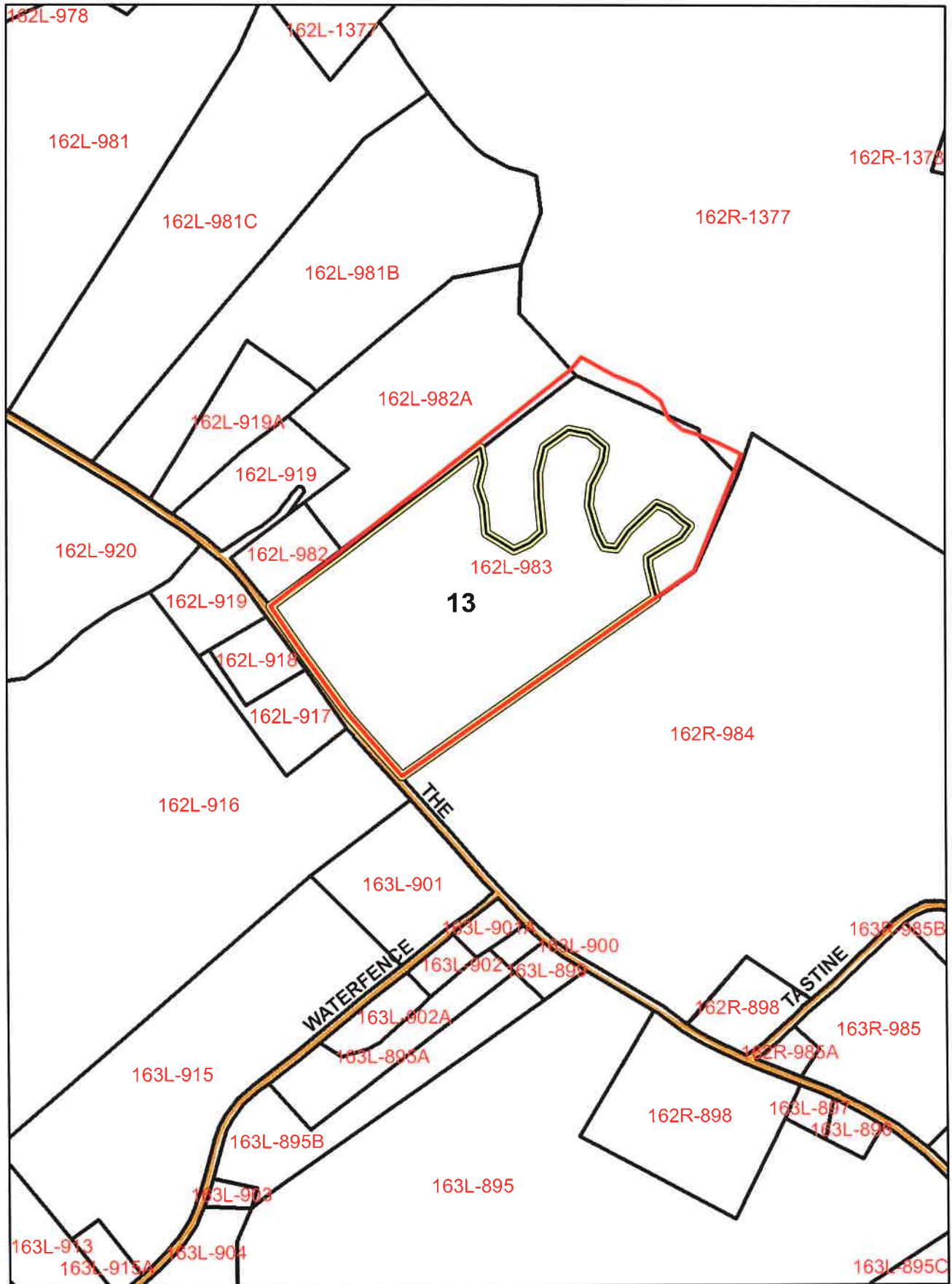
TAX MAP

1 in = 660 feet



TAX MAP

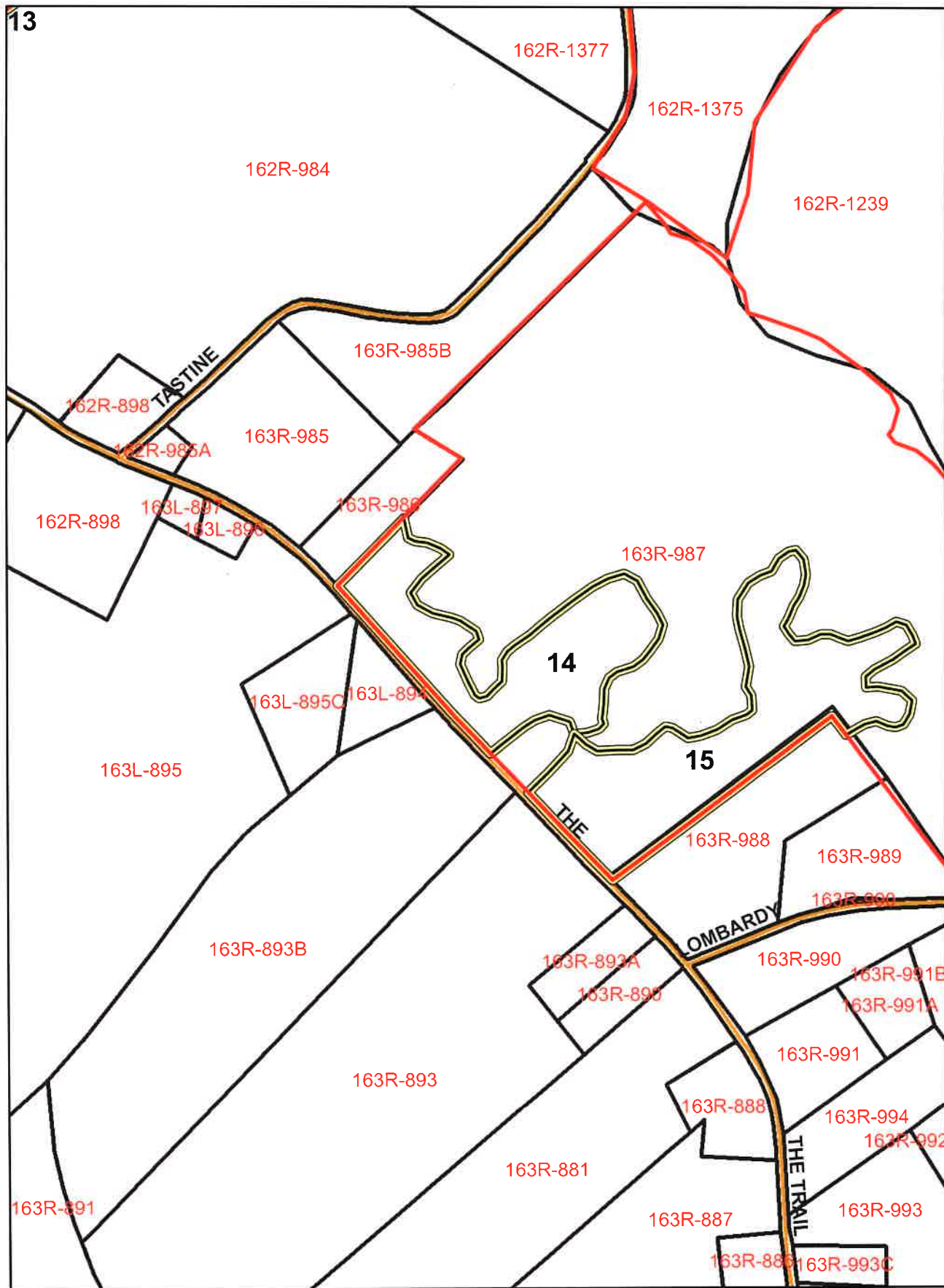
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TAX MAP

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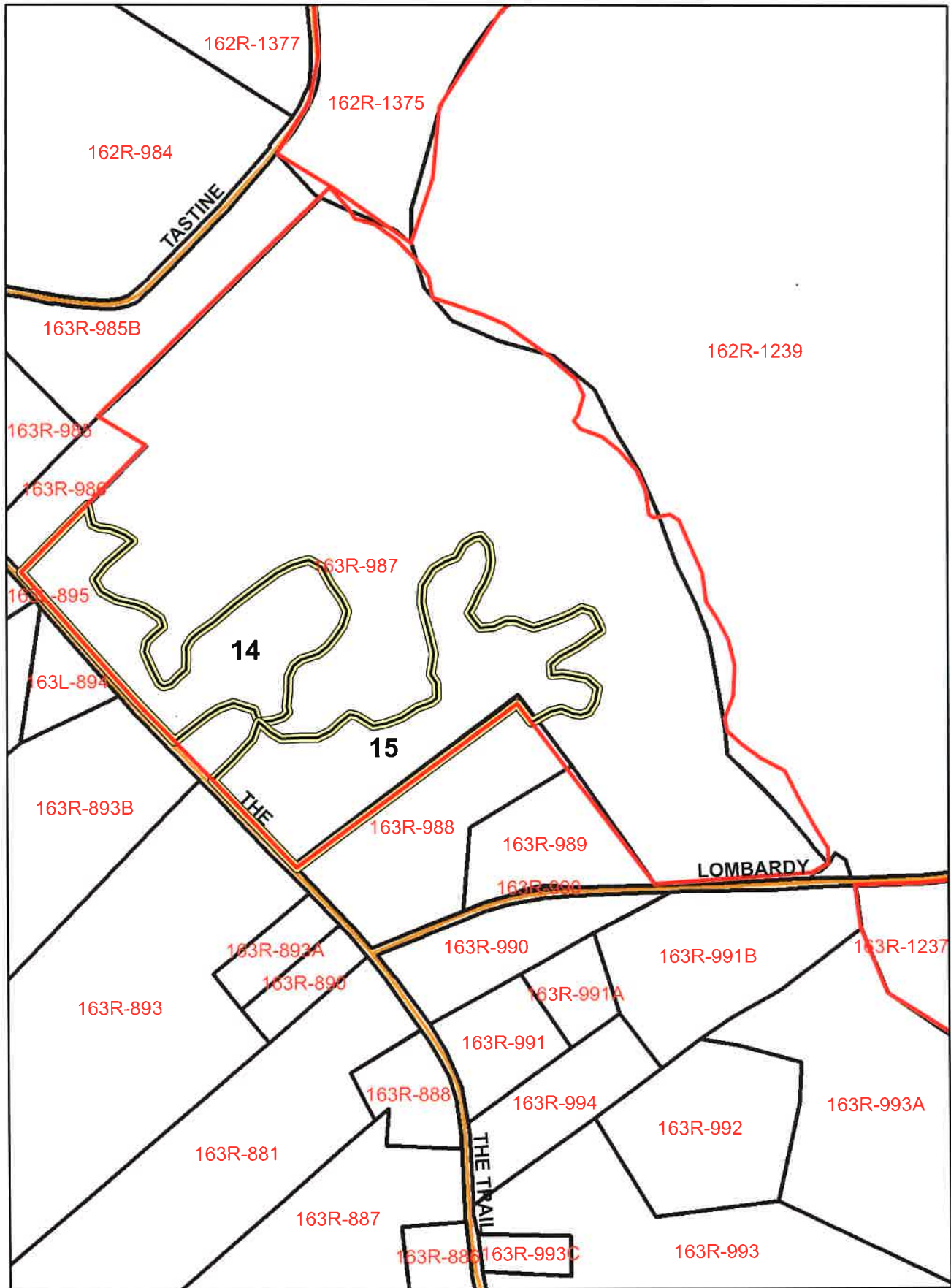




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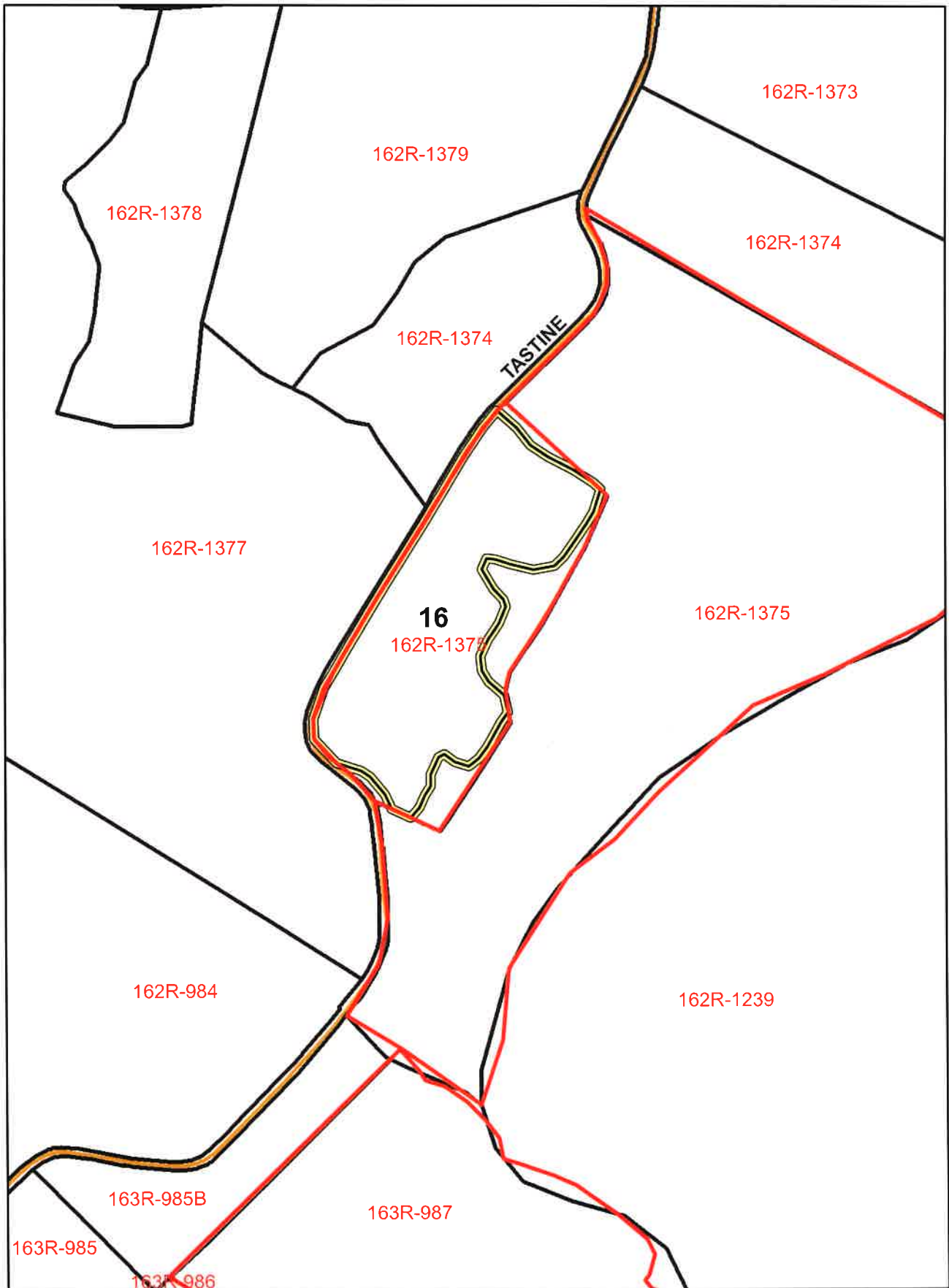




TAX MAP

1 in = 660 feet





TAX MAP

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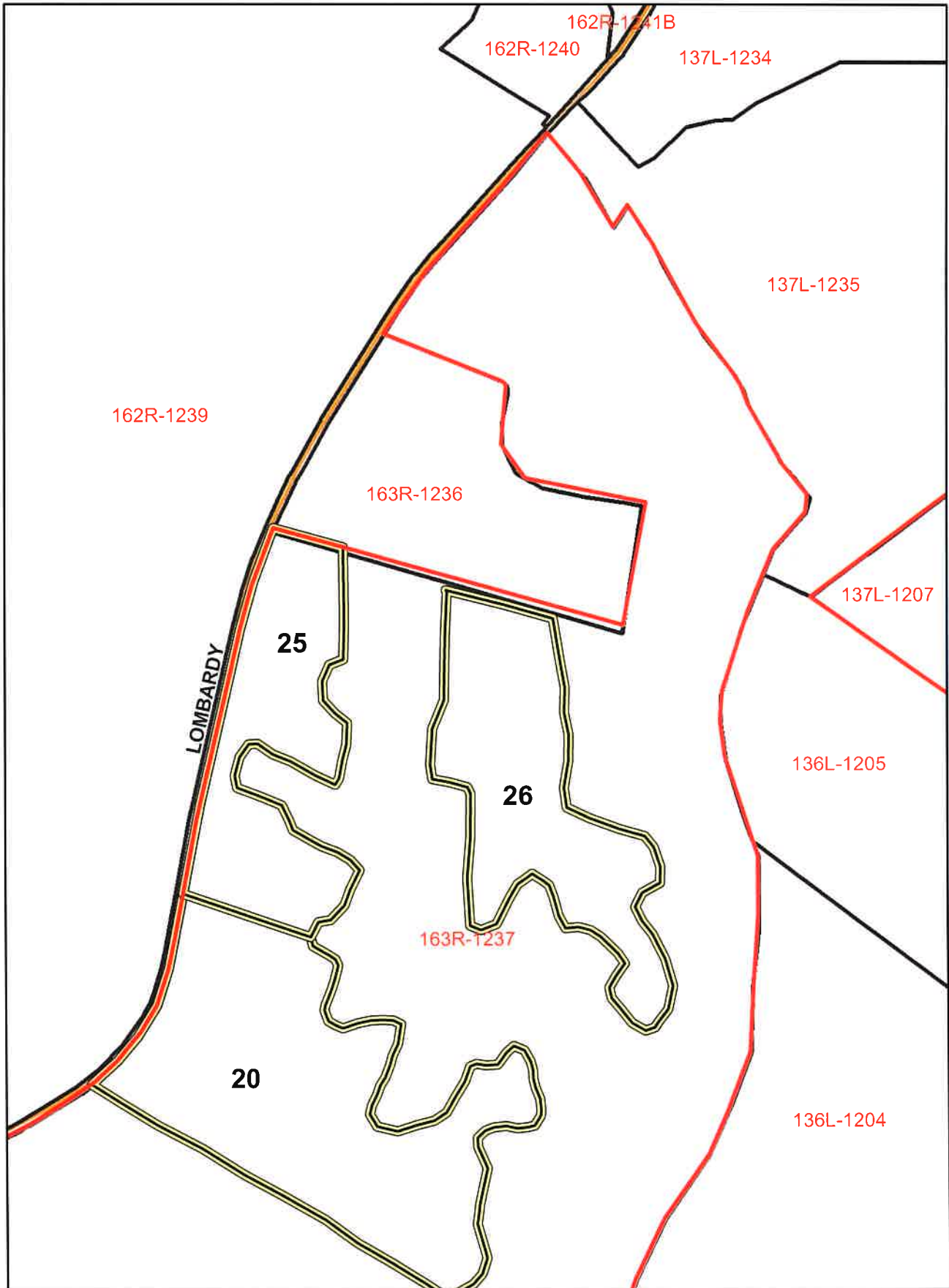




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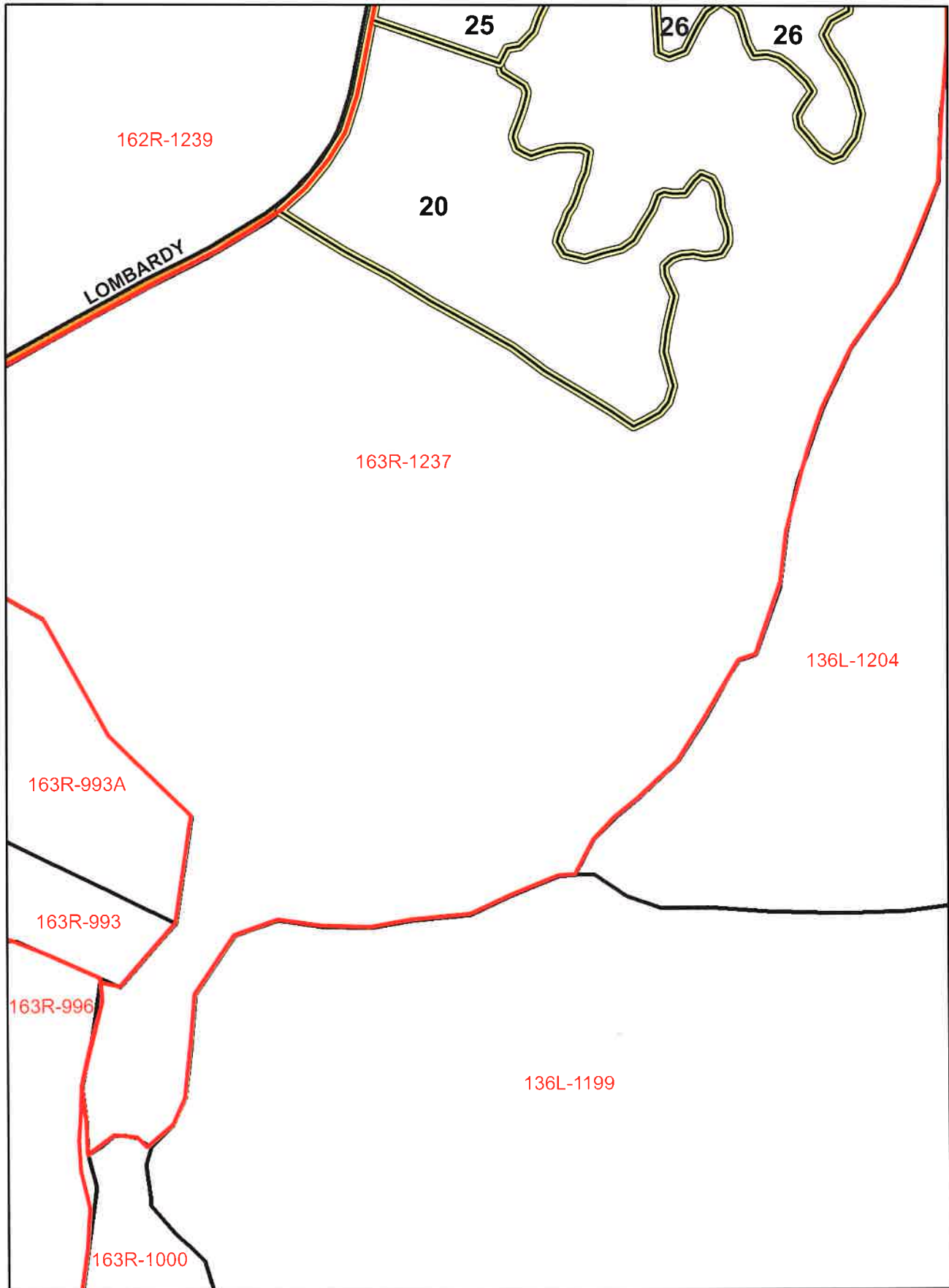




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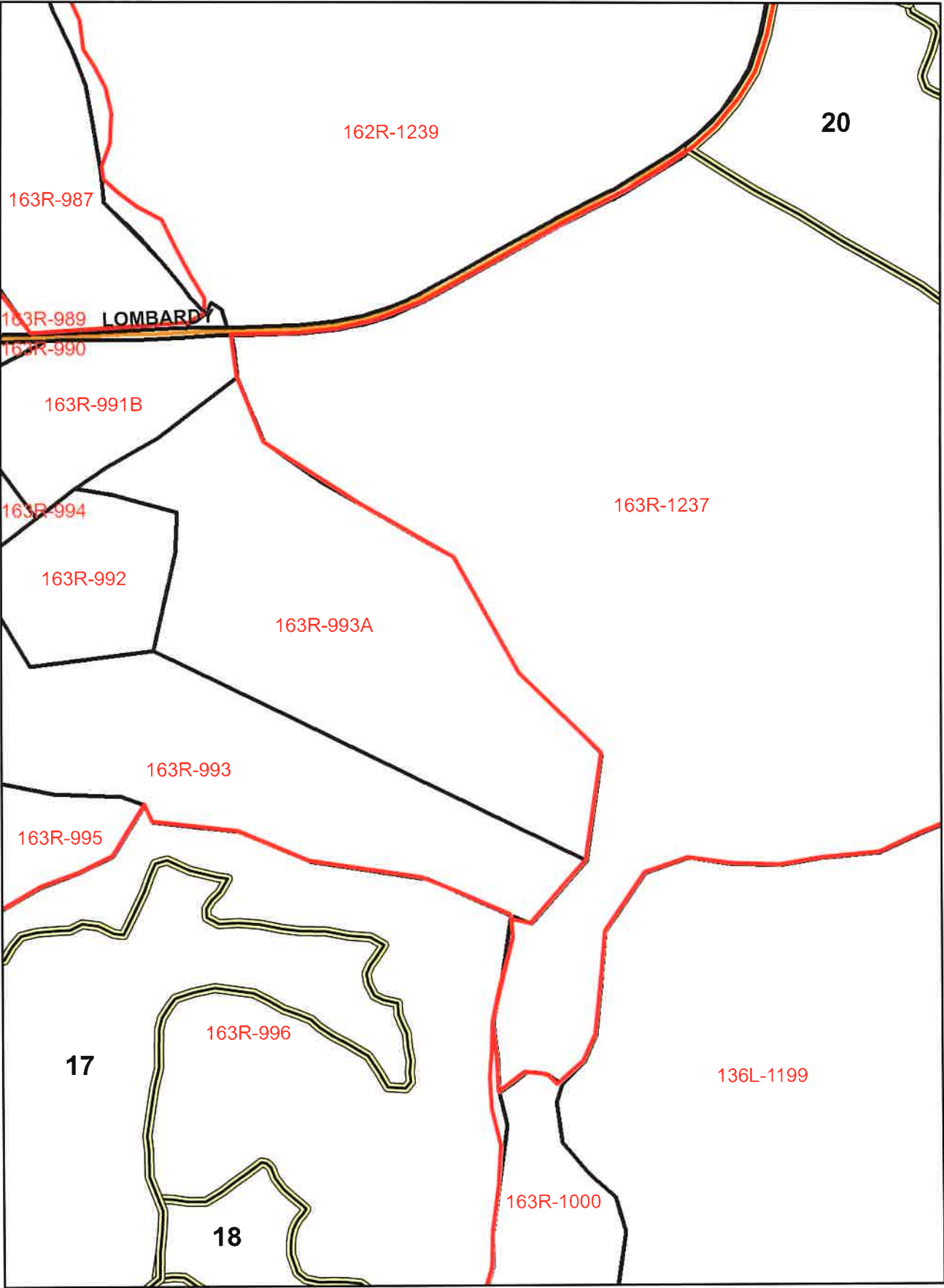




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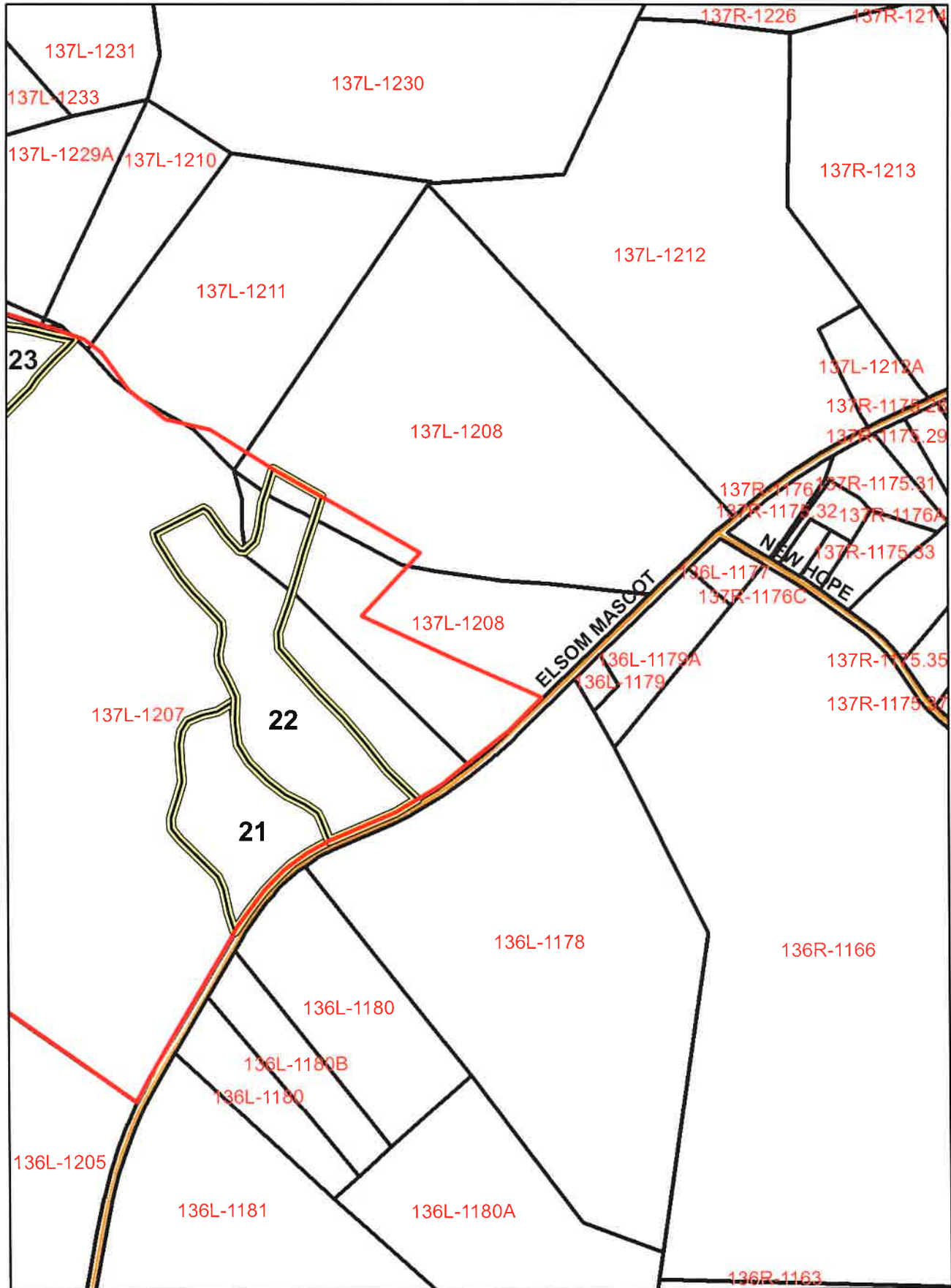




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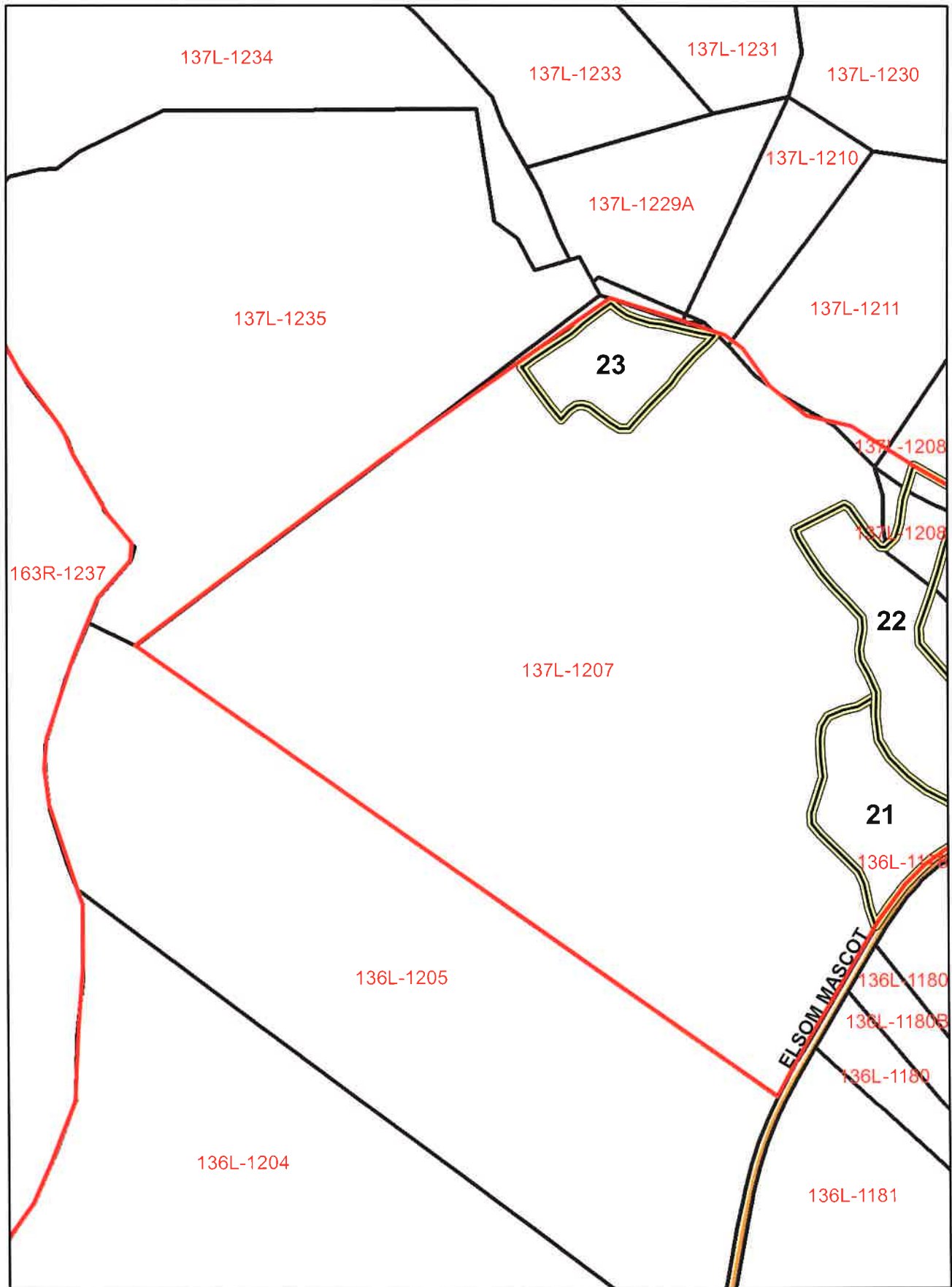




TAX MAP

1 in = 660 feet





TAX MAP

1 in = 660 feet



ADJOINING LANDOWNERS

Robert E. Gibson

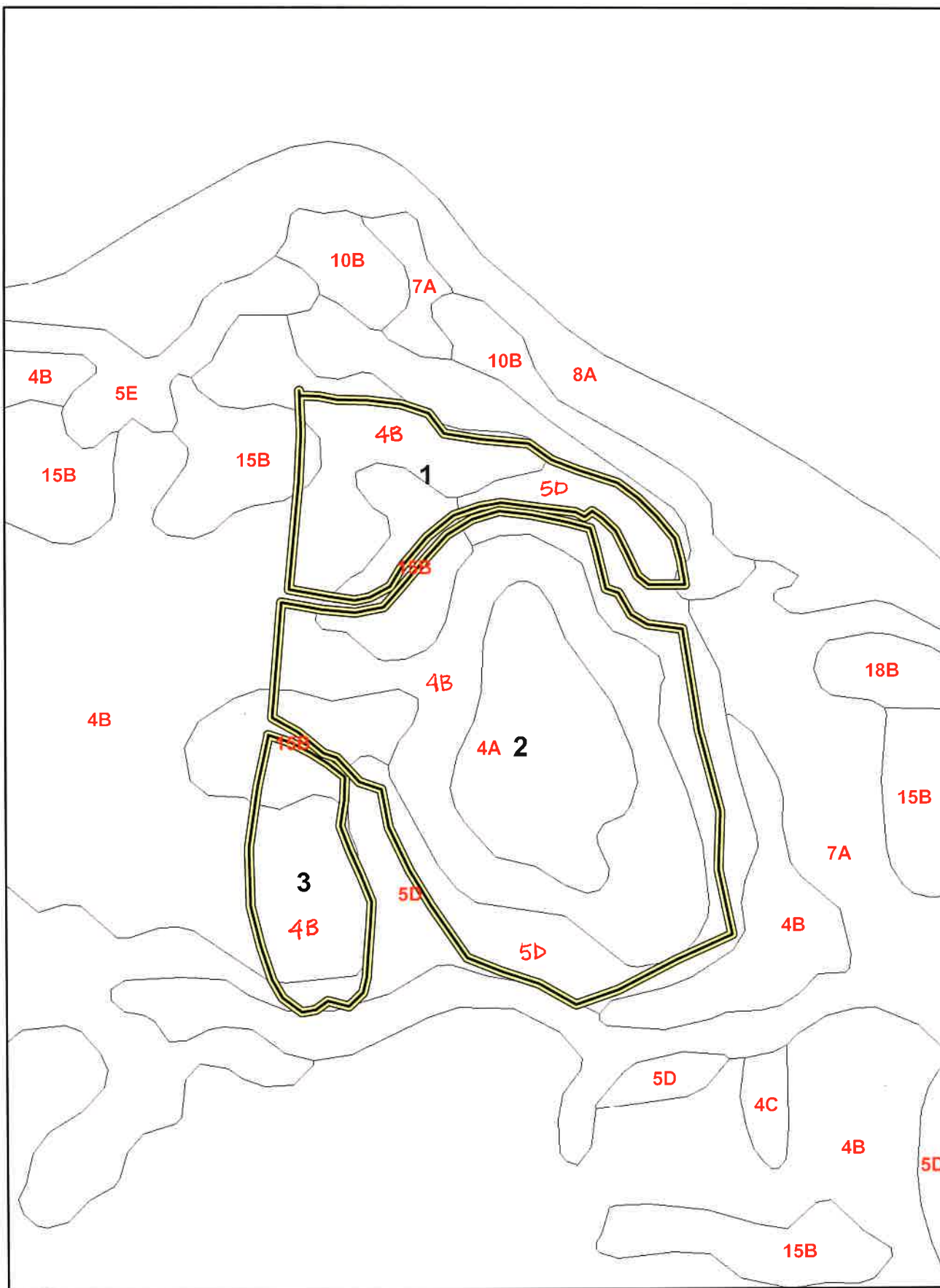
KING AND QUEEN COUNTY

Tax Map	Parcel #	Owner Name(s)
1623-63L	1134B	M. Earl Newton et. als.
	1134B1	Frederick L. Hill
	1134B2	John B. Williams III
	1134B3A1	John B. Williams III
	1134B3A	Granville C. Tillage
	1134B7A	Christopher S. Clemens
	1134B7B	Richard and Victoria Massey
1623-136L	1178	Bruce R. McDonald
	1179	George and Elzena Page
	1179A	William and Ruth Burse
	1180	William G. Thomas Estate
	1180B	Justin A. Taylor
	1181	William C. Prince, Jr. and Patricia
	1204	Isabelle H. Baldwin
1623-136R	1205	Robert E. and Nettie C. Gibson Trustees
1623-136R	1134	Sandra H. Hall Trustee
	1171	Eva C. Guthrie et. als.
1623-137L	1207	Robert E. and Nettie C. Gibson Trustees
	1208	Robert E. and Nettie C. Gibson Trustees
	1210	Virginia E. Brown Trustee
	1211	Virginia E. Brown Trustee
	1229A	Robert E. and Nettie C. Gibson Trustees
	1234	Robert E. and Nettie C. Gibson Trustees
	1235	Roger and Konstantine Hedrick
1623-137R	1218	Robert E. and Nettie C. Gibson Trustees
	1219	Robert E. and Nettie C. Gibson Trustees
	1221	Robert E. and Nettie C. Gibson Trustees

Tax Map	Parcel #	Owner Name(s)
1623-157L	629	Heartwood Forestland Fund VI LP
	630	Heartwood Forestland Fund VI LP
	631	John Y. Currie III Trustee
	644	Lewis L. and Phyllis T. Norman
	645	Middle Peninsula
	646	Robert E. and Nettie C. Gibson Trustees
1623-162L	901	Lewis L. and Phyllis T. Norman Trustees
	916	Lewis L. and Phyllis T. Norman Trustees
	917	Lewis L. and Phyllis T. Norman Trustees
	918	James and Anita Givens
	919	Plesant Hill School
	920	Eleanor Carlton Trustee et. als.
	982	Marjorie T. Bland Life Estate
	982A	Marjorie T. Bland Life Estate
1623-162R	984	Robert E. and Nettie C. Gibson Trustees
	1239	Helen Page Garrett et. als.
	1374	Meko Baker-Eure et. als.
	1375	Robert E. and Nettie C. Gibson Trustees
	1377	Commonwealth of Va Dept of Forestry
	1378	Robert E. and Nettie C. Gibson Trustees
1623-163L	894	Old Church United Methodist Trustees
	895	Robert E. and Nettie C. Gibson Trustees
	895C	Old Church United Methodist Trustees
1623-163R	858	Ann S. Shumaker
	858D	Thomas B. French
	880A, E, F	John Wayne Smith et. ux.
	880B, C, D	Dorothy T. Ashley Trustee
	880G	Kenneth and Elisa Parker
	880H	James and Tina Carrington
	880J	John Carboneau
	880K	G. D. and Betty Jean Lewis Trustees
	882	Dorothy T. Ashley Trustee
	883	Leonard R. and Twyla C. Otto
	884	Troy E. Ripplinger
	885	Susan C. Newton
	890	Janet Smith
	893	Robert F. Norman Living Trust

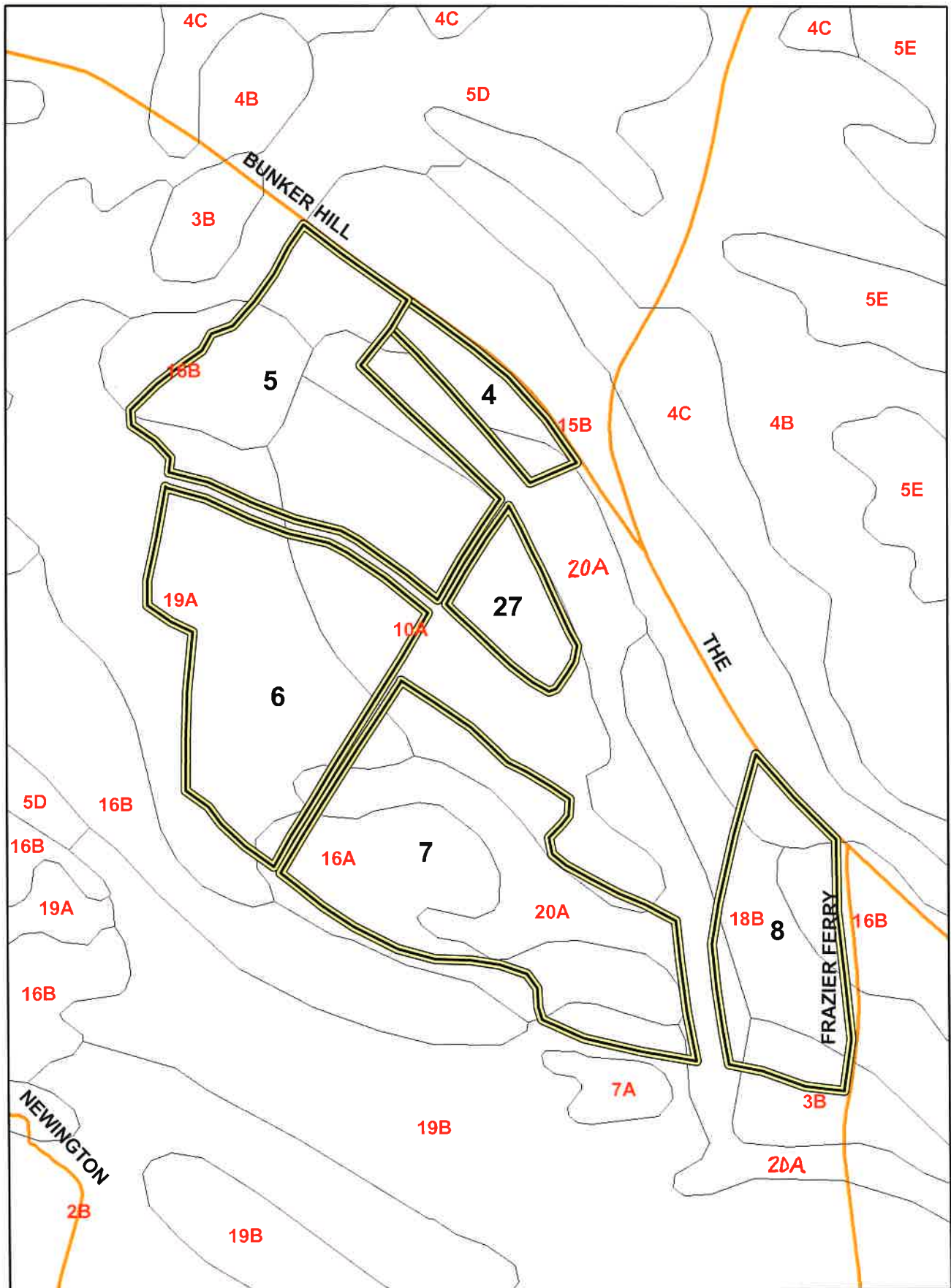
Tax Map	Parcel #	Owner Name(s)
1623-163R	893A	Robert K. and Helen K. Carlton
	893B	Mary Garland Vaughan-Camp
	985	Michael and Pamela Burton
	985B	Elton Norman
	986	Glen and Monique Young
	987	Robert E. and Nettie C. Gibson Trustees
	988	Catherine June Norman Marshall
	989	Catherine June Norman Marshall
	990	Cynthia W. Norman Living Trust
	991B	Dorothy Wyatt
	993	Dorothy T. Ashley Trustee
	995	Charles T. Redd IV
	996	Robert E. and Nettie C. Gibson Trustees
	996A, B	Albert George and Lewis Parks
	1000	Corbin Clubb
	1236	William L. and Janice S. Richardson
	1237	Robert E. and Nettie C. Gibson Trustees
	1239	Helen Page Garrett et. als.
1624-53L	72	Heartwood Forestland Fund IV LP
	72B	Frank and Barbara Hurst
1624-53R	45	Arthur W. Davis Jr.
	45F	Ray B. Sickal
	47	Garland White
	48	Bertie Dorene Chamberlain
	48B	Gerald R. Muse, Sr.
	49	Barbara Muse and Glen Johnson
	56E	George R. Robinson, Jr.
	56F	Margaret P. Redd
	65	Hurst Family
	70	Robert E. and Nettie C. Gibson Trustees
	70A	Lovings Welding and Fabricating
	70B	Lovings Welding and Fabricating
	563	Ruth S. Arpaia
	563A	Dennis and Victoria Page
	564	Alvin Powers Jr. et. ux.
	564B	Christopher and Vanessa Marion
	564C	Eunice Coleman
	564D	Brandy Burrell
	1003	John H. Thorpe and Alyce B. Galliger

Tax Map	Parcel #	Owner Name(s)
1624-53R	1003A 1004	Donald W. Hicks Sr. Heartwood Forestland Fund VI LP



SOIL MAP

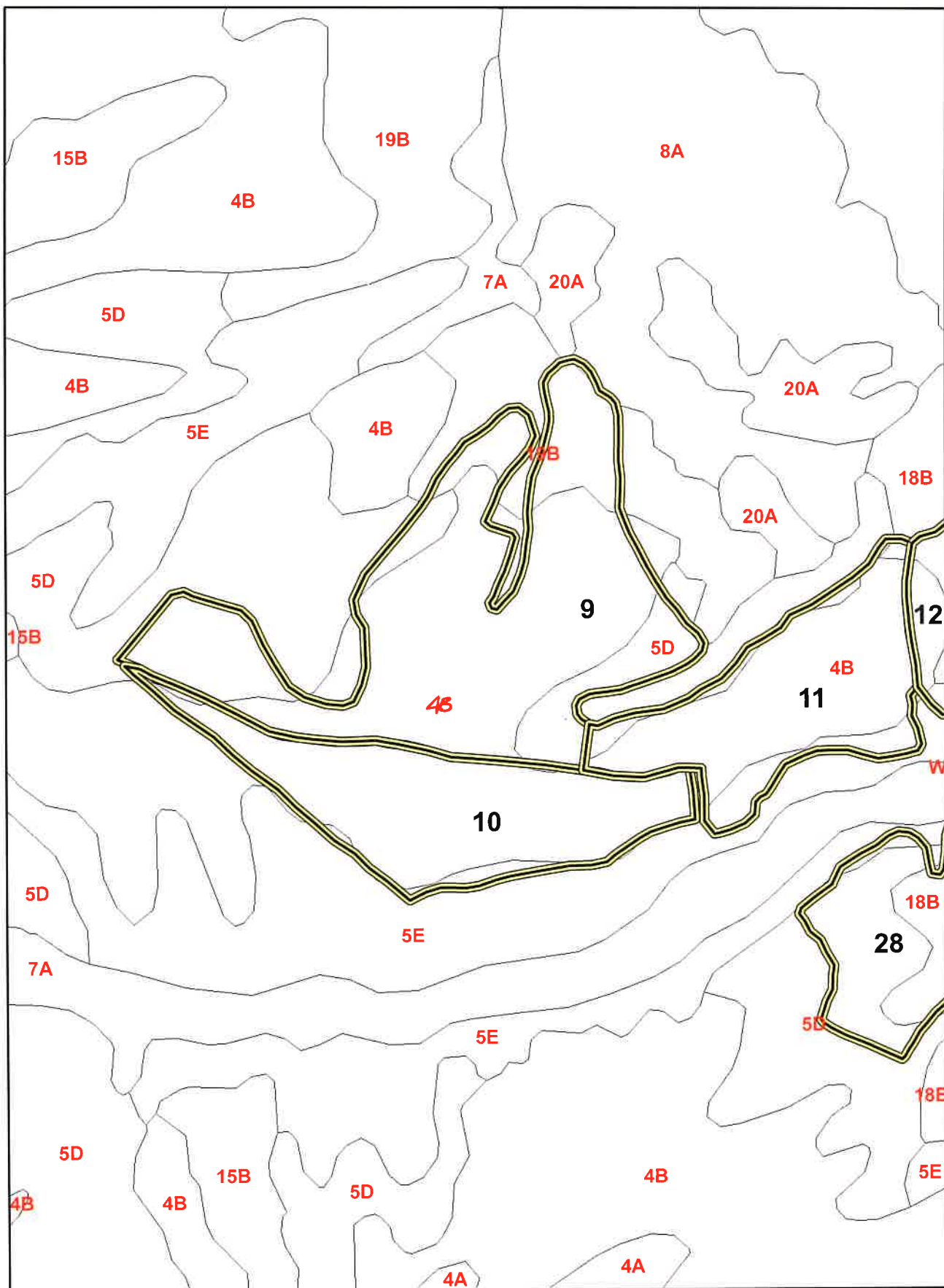
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SOIL MAP

1 in = 660 feet

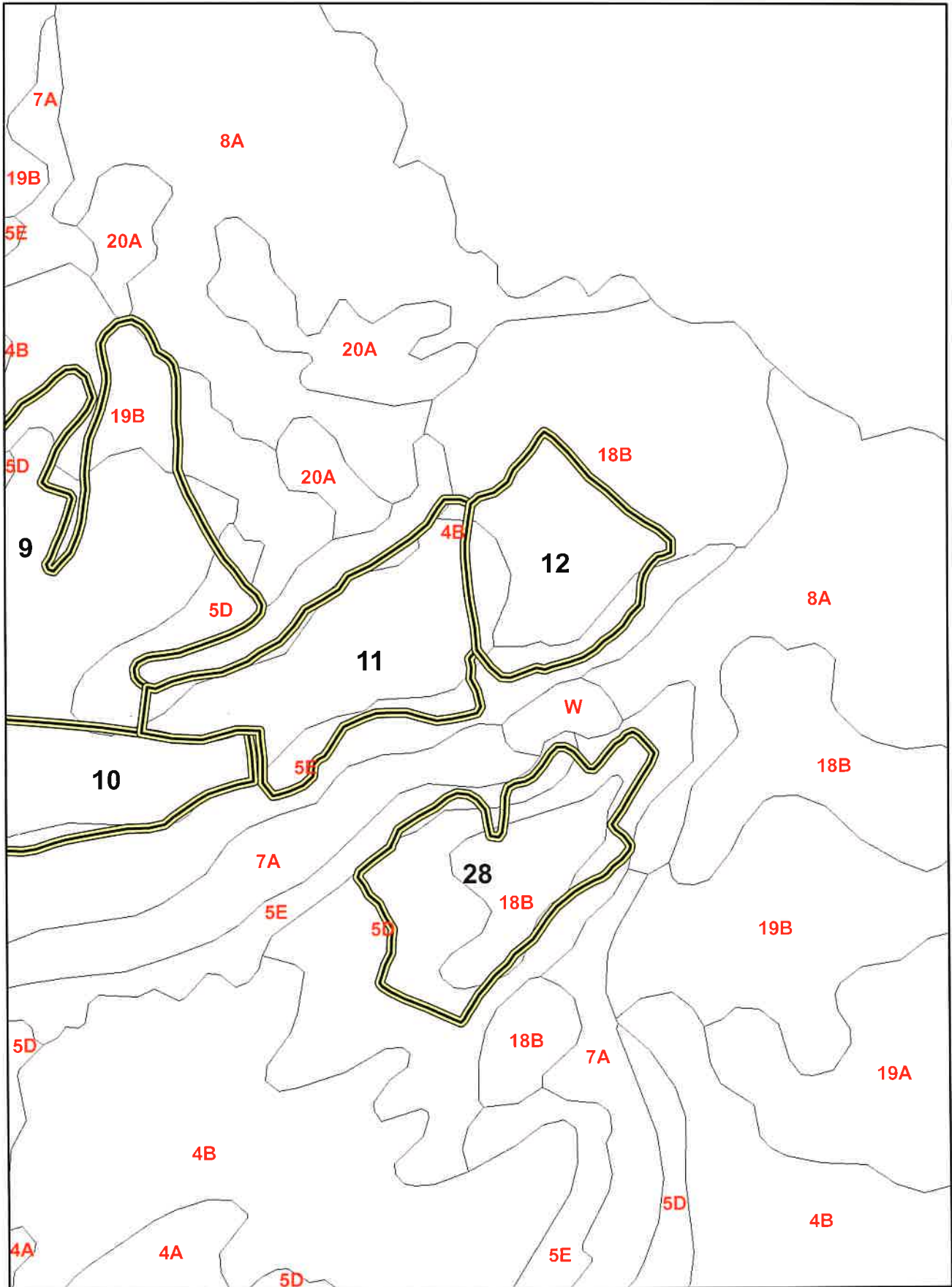




SOIL MAP

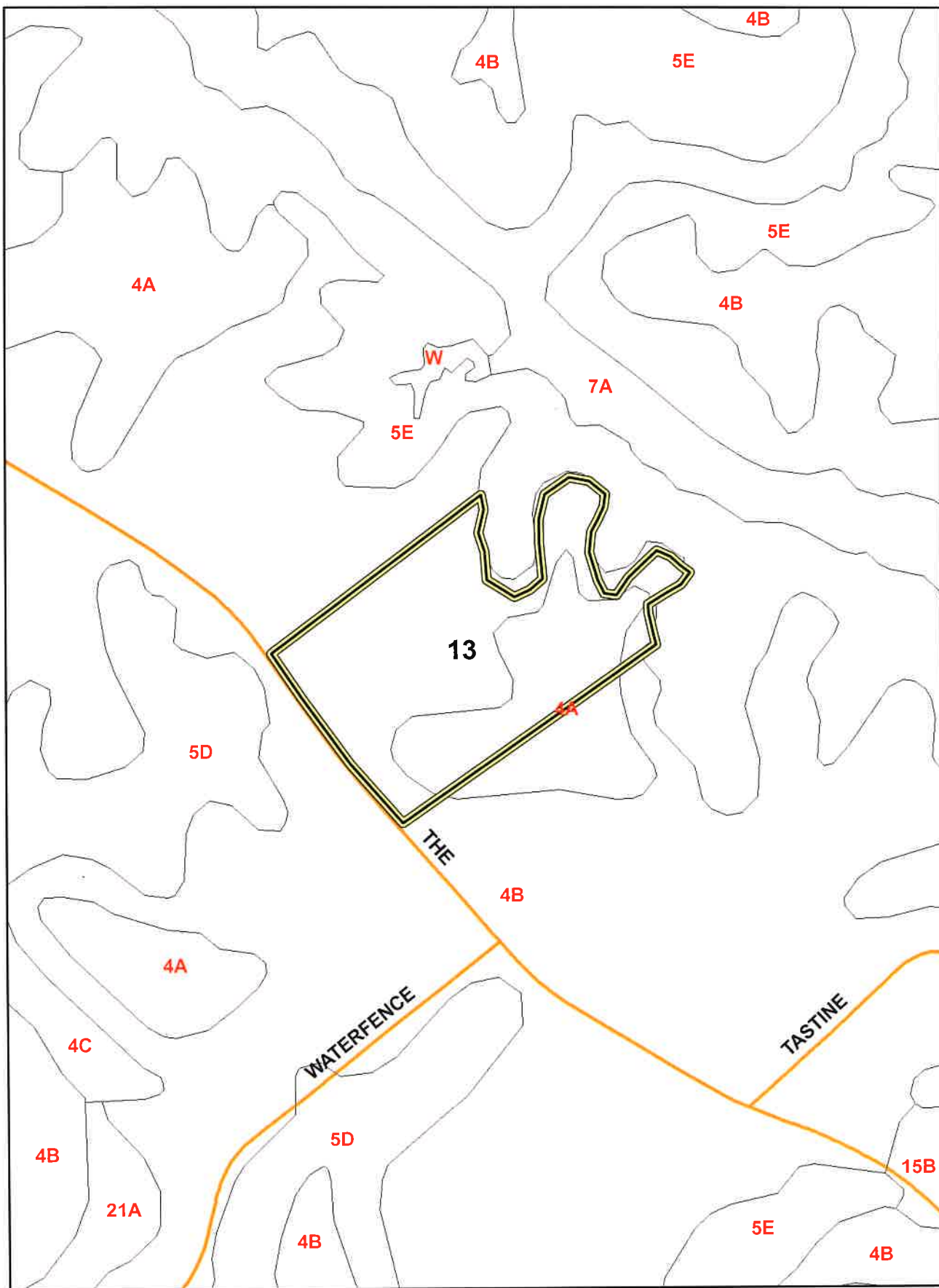
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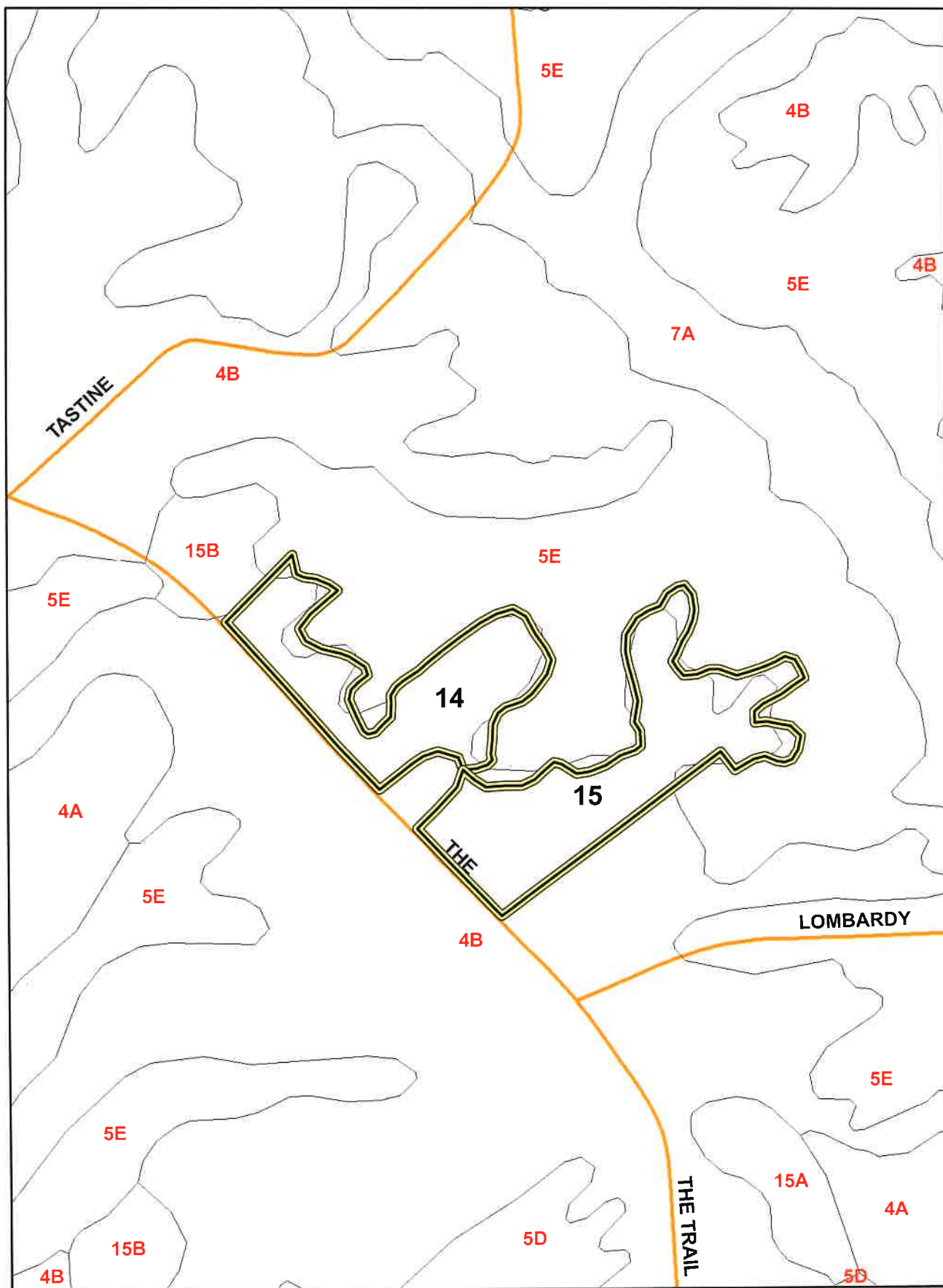
SOIL MAP

1 in = 660 feet



SOIL MAP

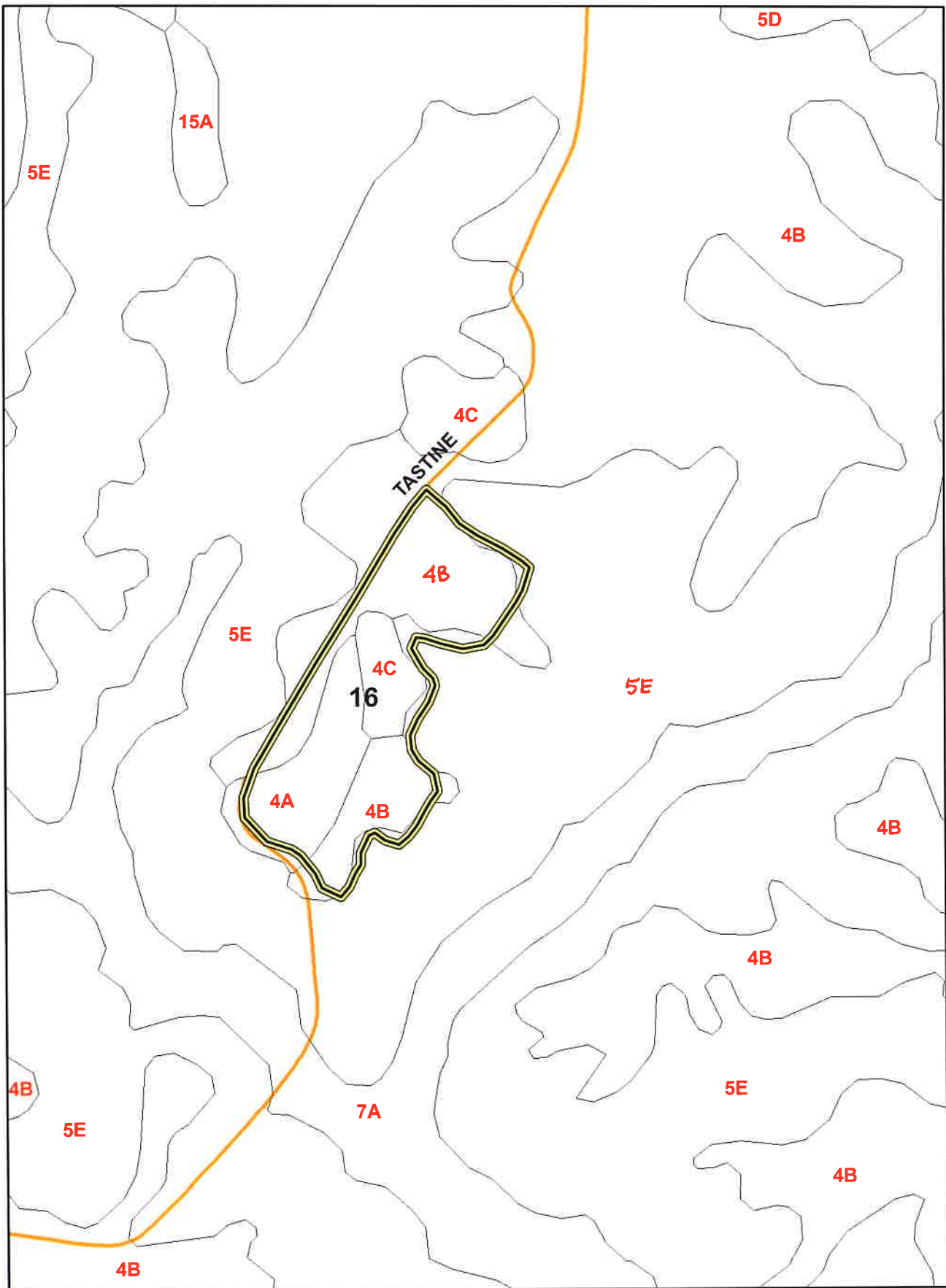
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SOIL MAP

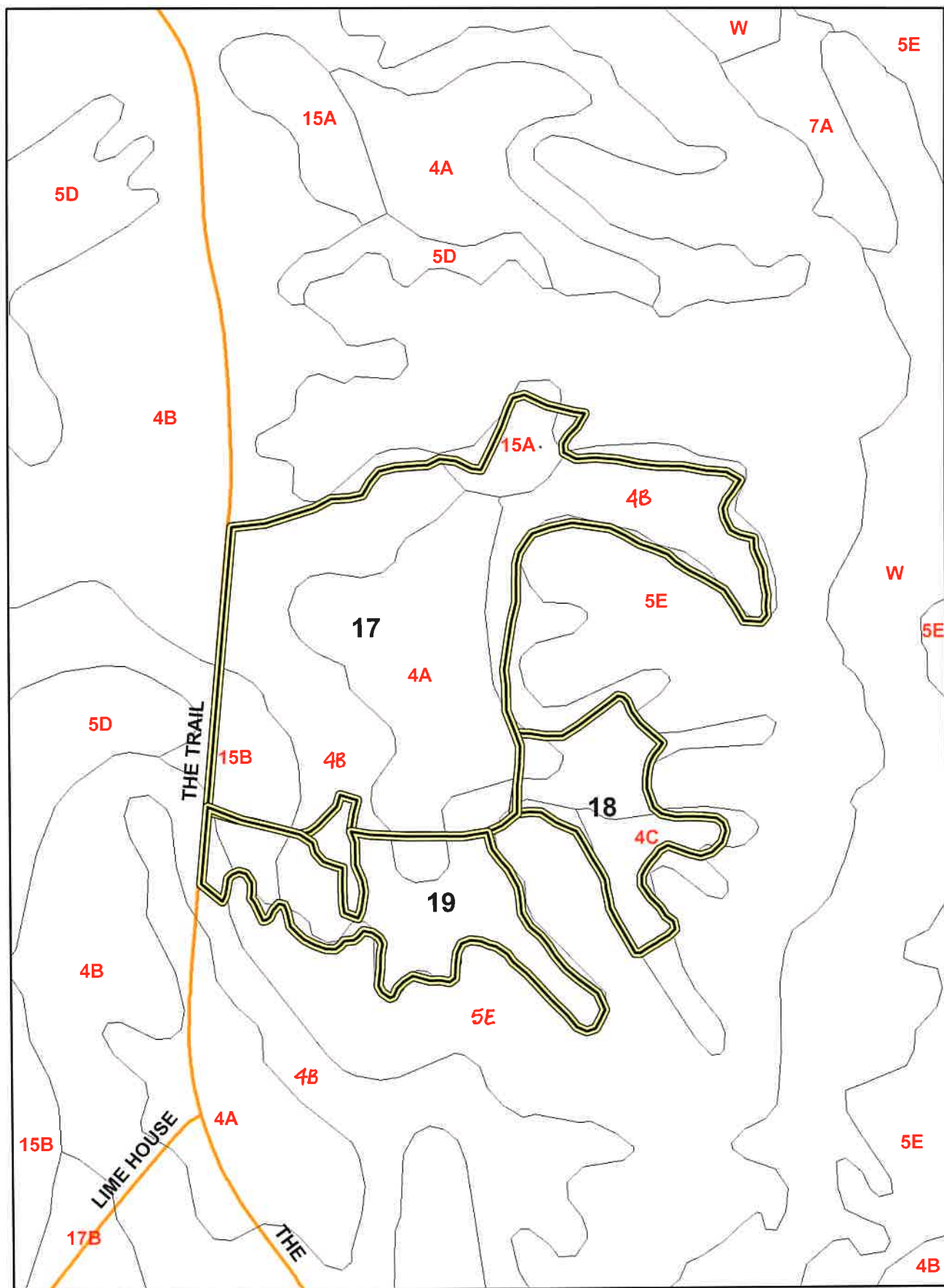
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SOIL MAP

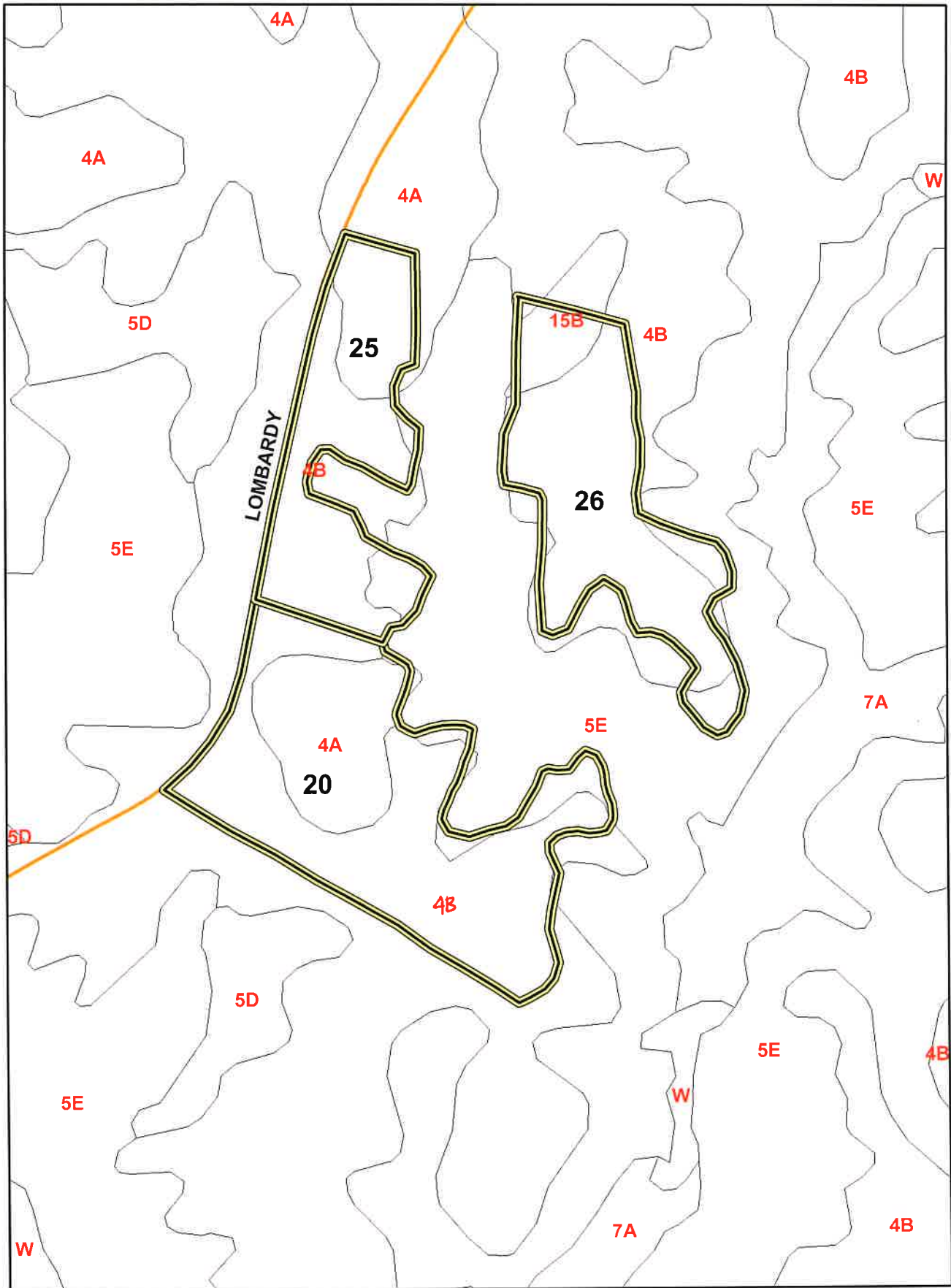
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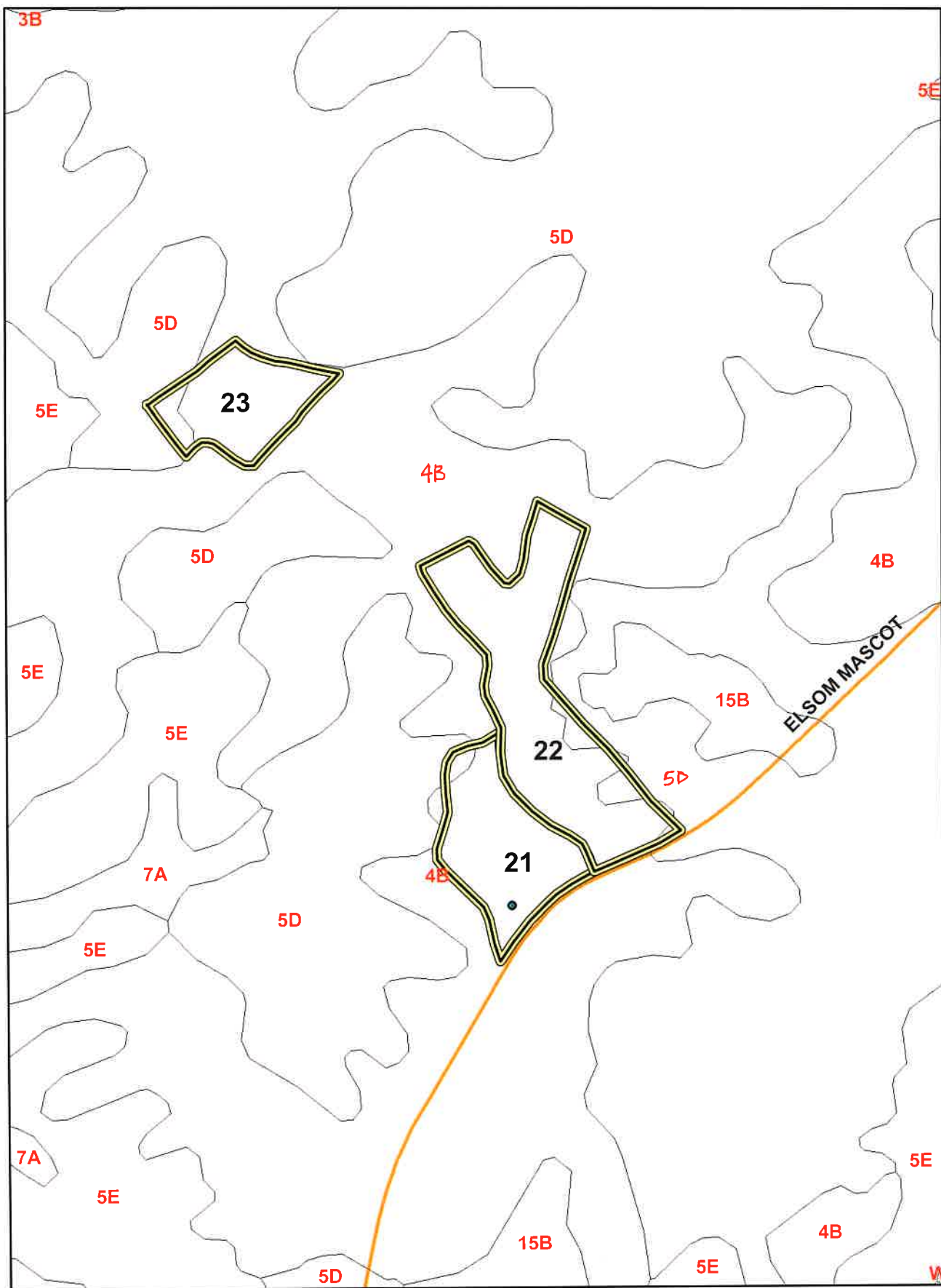
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SOIL MAP

1 in = 660 feet



SOIL MAP

1 in = 660 feet





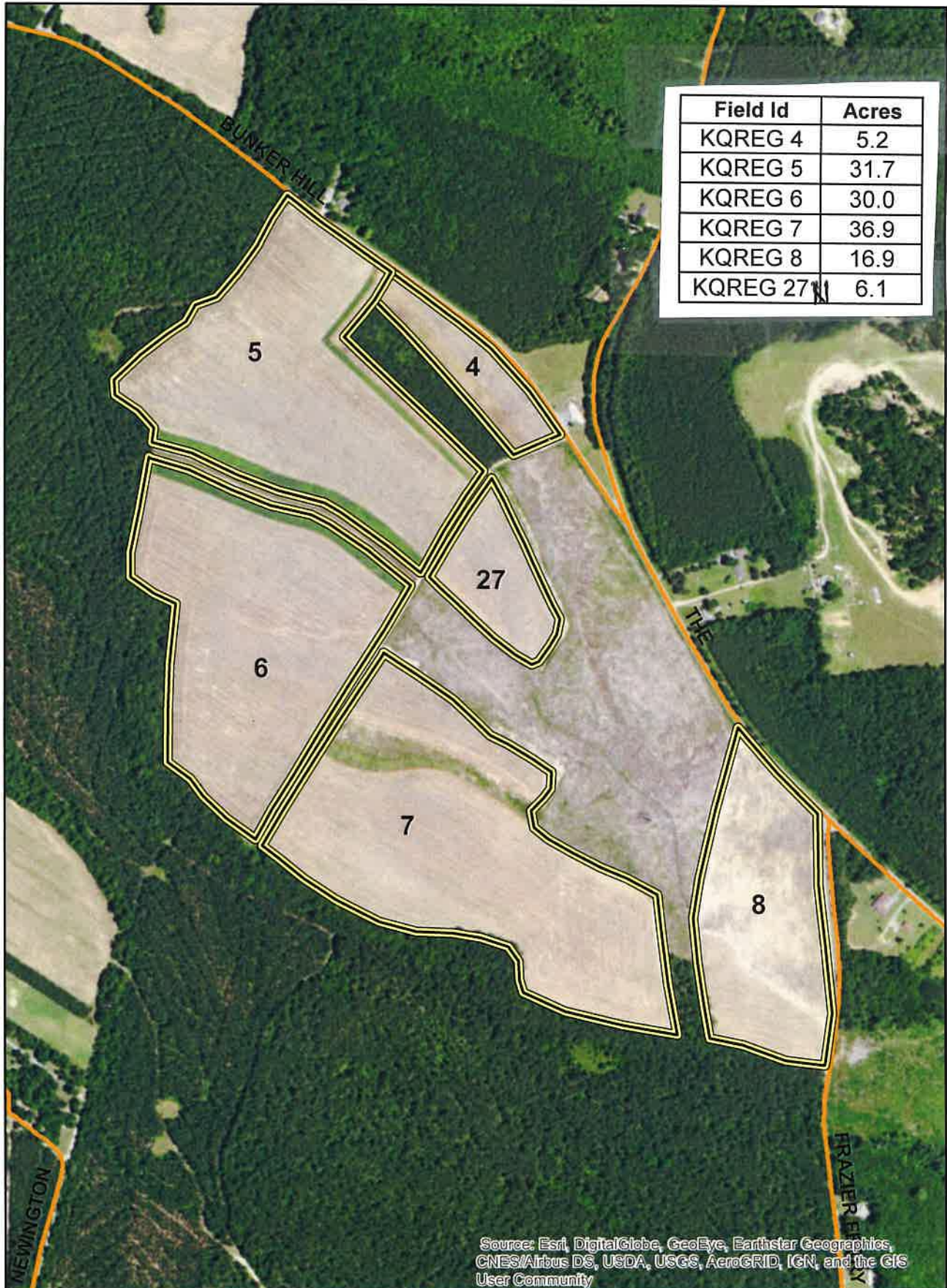
Field Id	Acres
KQREG 1	20.3
KQREG 2	73.1
KQREG 3	12.7



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS
User Community

AERIAL MAP

1 in = 660 feet



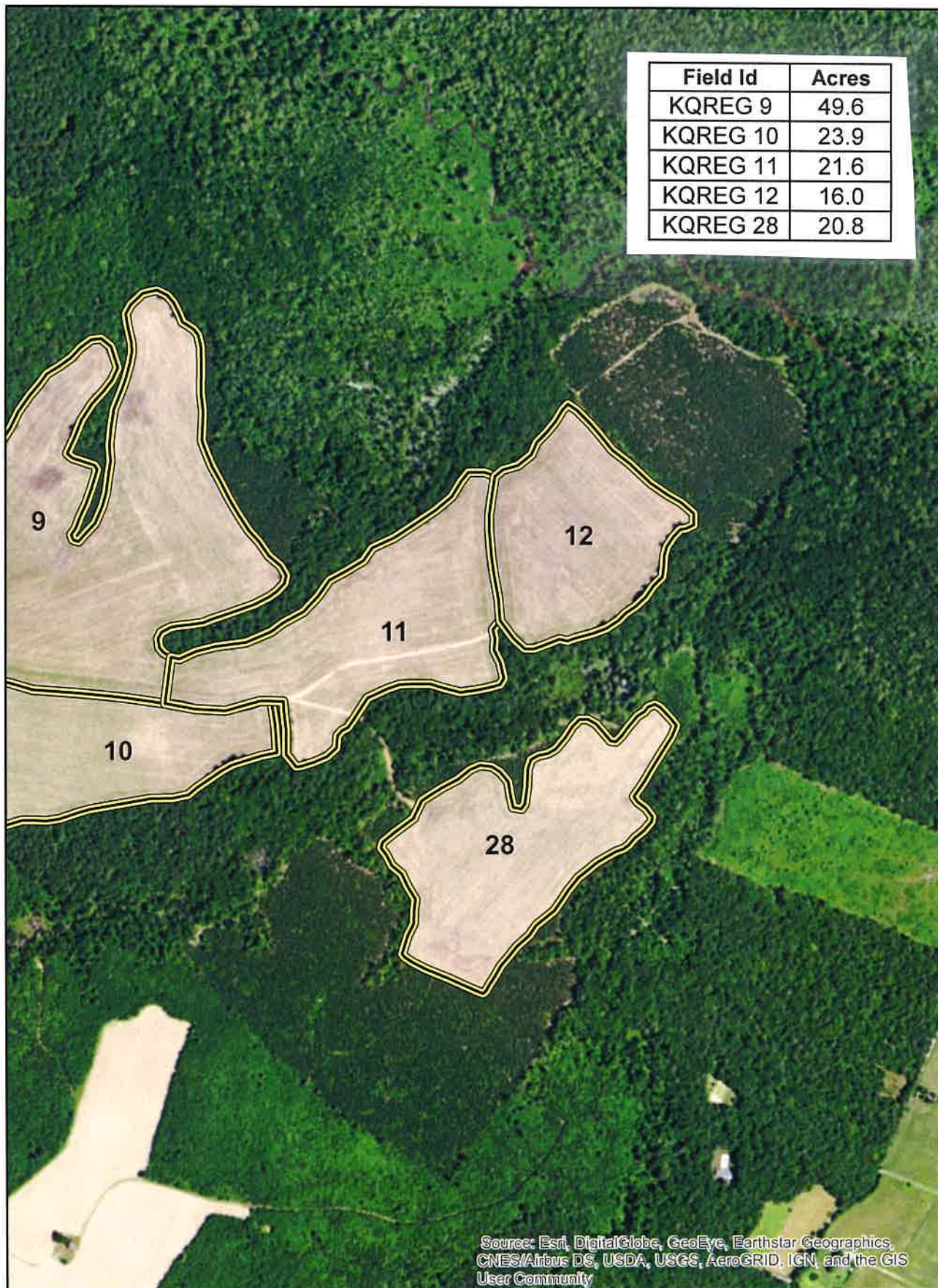
AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



AERIAL MAP

1 in = 660 feet



United States
Department of
Agriculture

King and Queen County, Virginia

Farm 3358

Tract 2799

2018 Program Year

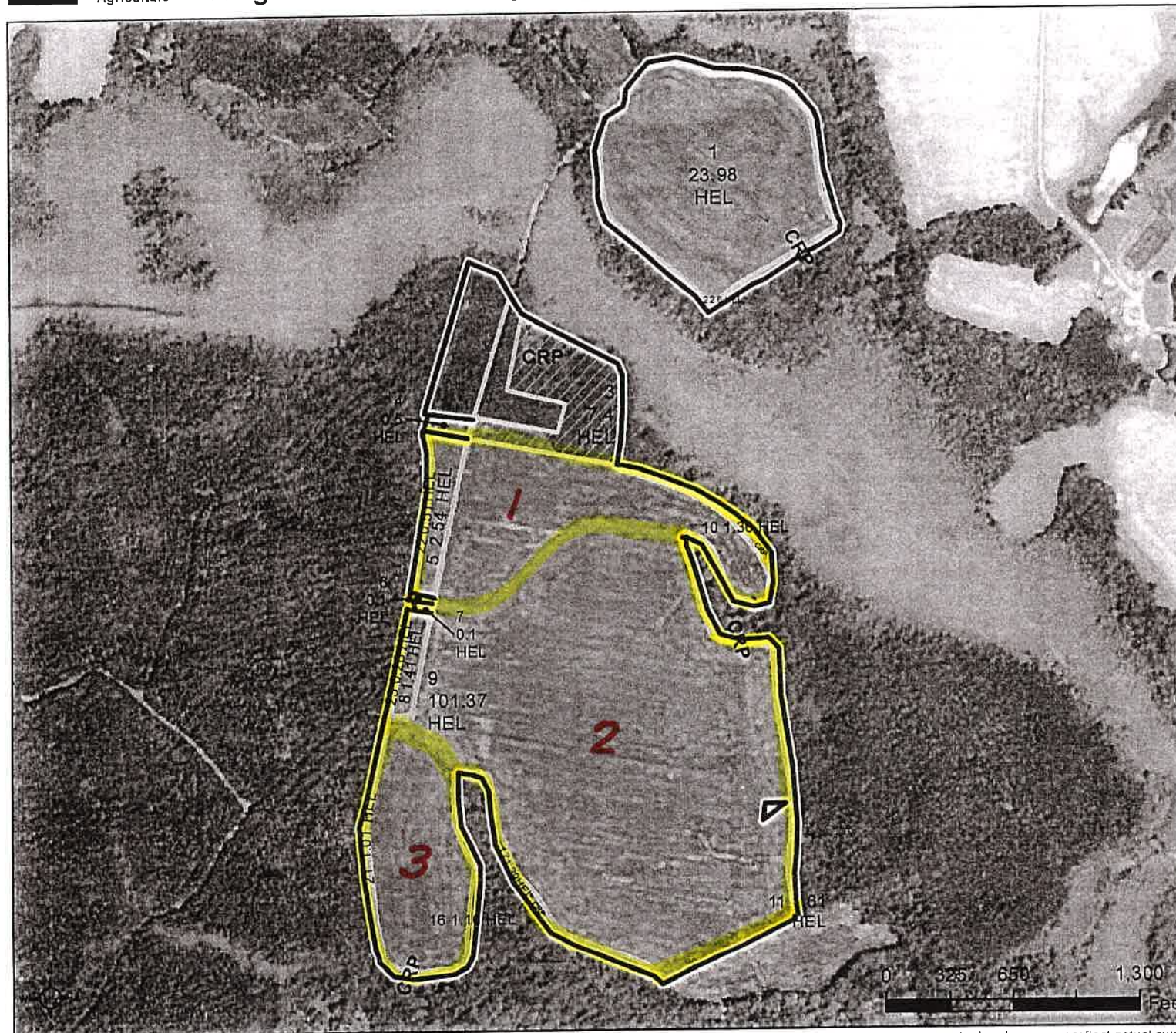
Map Created July 31, 2017

Common Land Unit

- Common Land Unit
- CRP
- Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions



Tract Cropland Total: 147.32 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

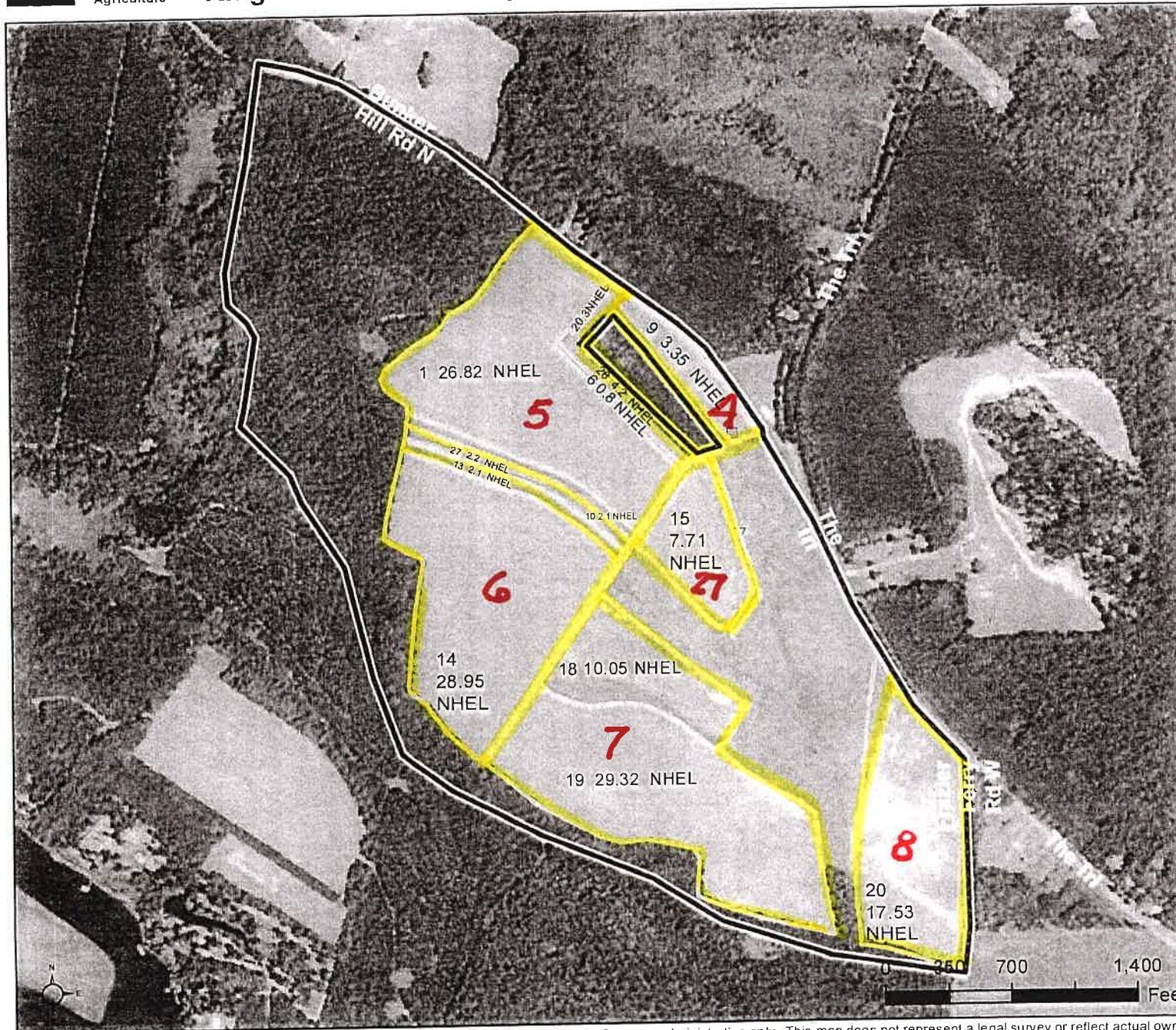


United States
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Agriculture

King and Queen County, Virginia

Farm 3358

Tract 2050



2018 Program Year

Map Created July 31, 2017

Common Land Unit

Common Land Unit

rcl_l_va057_va099_va101

Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 135.43 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



United States
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King and Queen County, Virginia

Farm 3358
Tract 2288


2018 Program Year

Map Created July 31, 2017




Common Land Unit

Common Land Unit

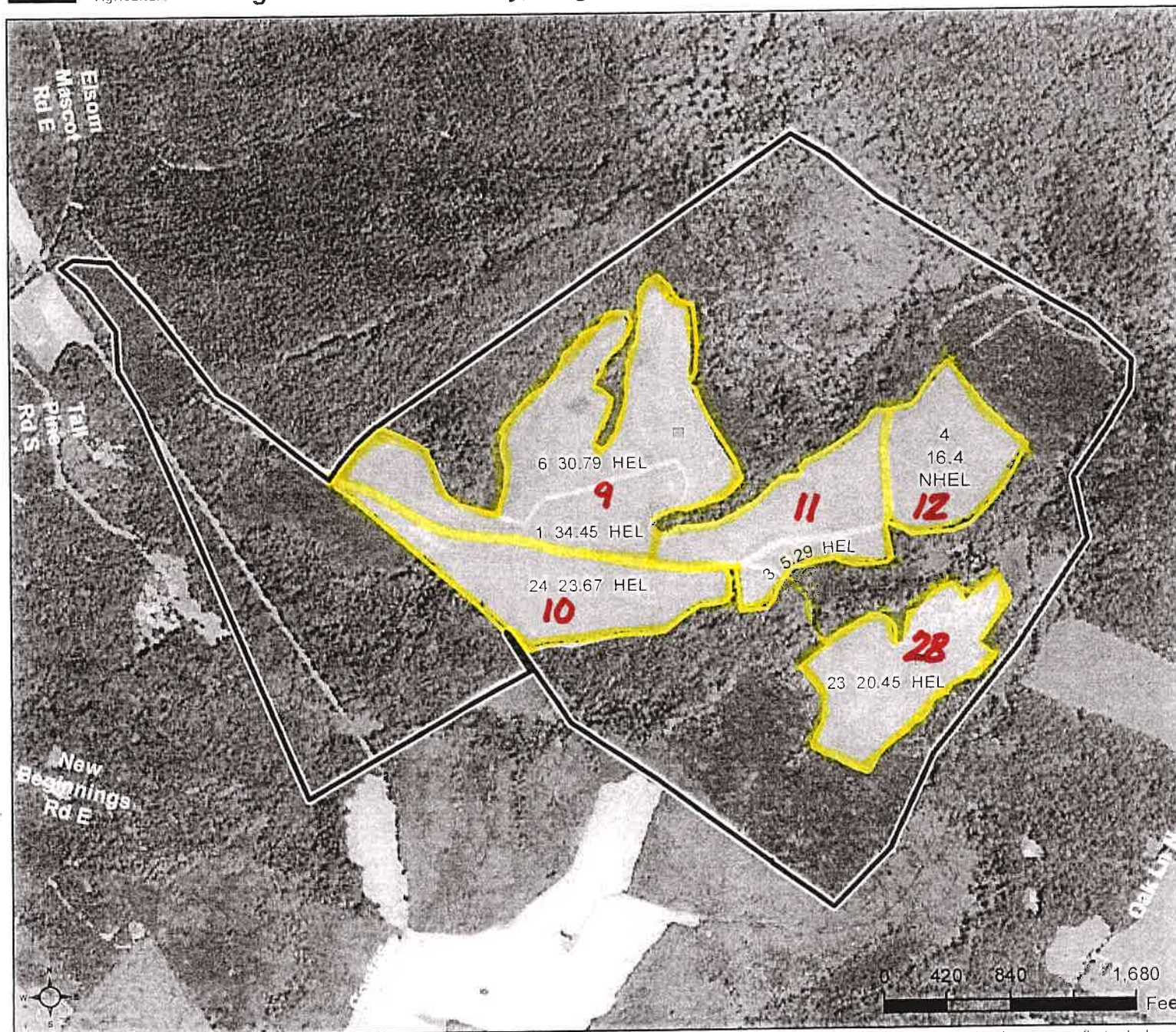
rcl_l_va057_va099_va101

 Tract Boundary

Wetland Determination Identifiers

-  Restricted Use
-  Limited Restrictions
-  Exempt from Conservation Compliance Provisions

Tract Cropland Total: 131.05 acres



United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



United States
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Agriculture

King and Queen County, Virginia

Farm 3358

Tract 137

2018 Program Year

Map Created July 31, 2017

Common Land Unit

Common Land Unit

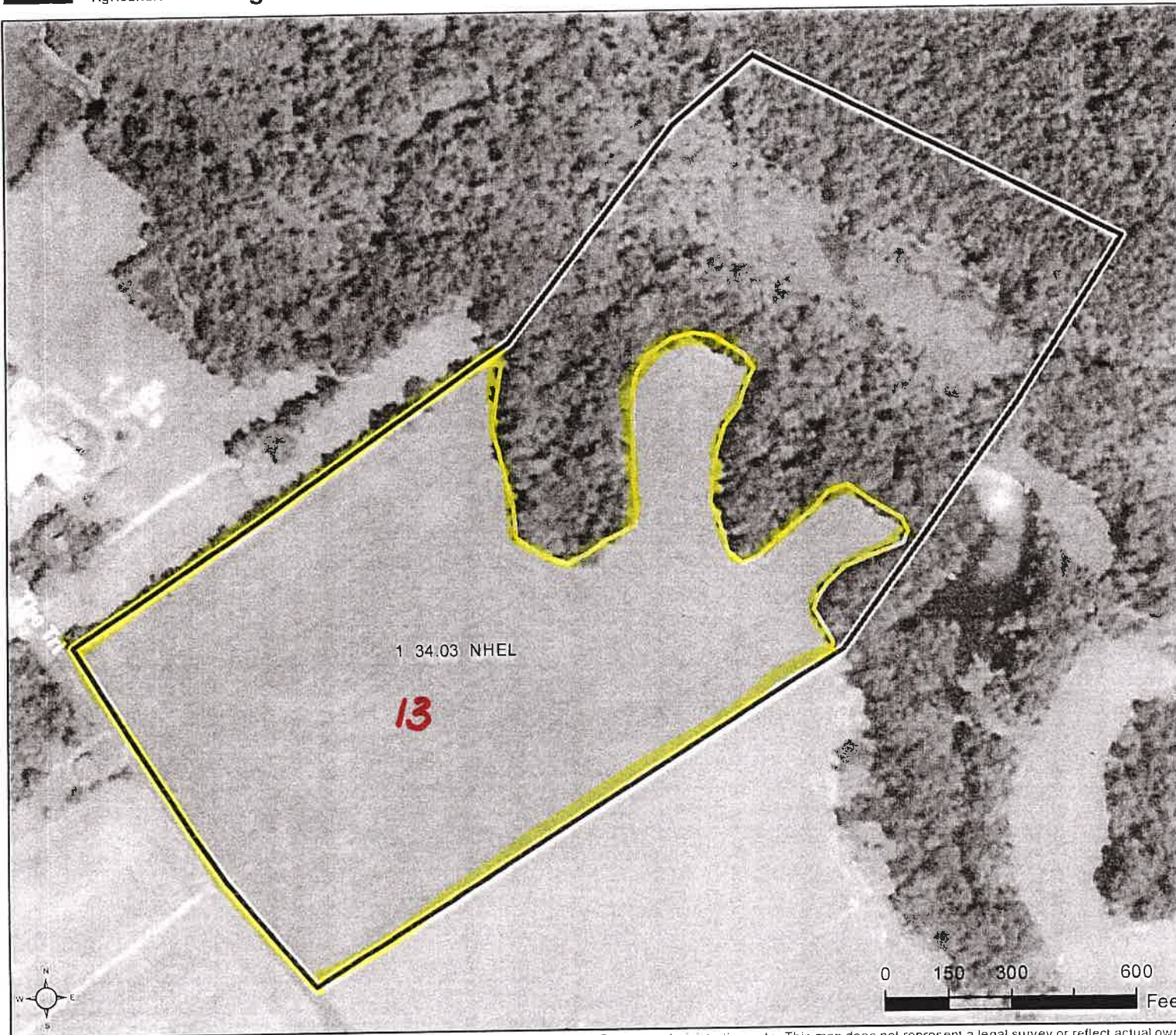
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Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 34.03 acres



United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



United States
Department of
Agriculture

King and Queen County, Virginia

Farm 3358

Tract 428

2018 Program Year

Map Created July 31, 2017

Common Land Unit

Common Land Unit

rcl_l_va057_va099_va101

Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation
Compliance Provisions

Tract Cropland Total: 34.31 acres



United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



United States
Department of
Agriculture

King and Queen County, Virginia

Farm 3358

Tract 502

2018 Program Year

Map Created July 31, 2017

Common Land Unit

Common Land Unit

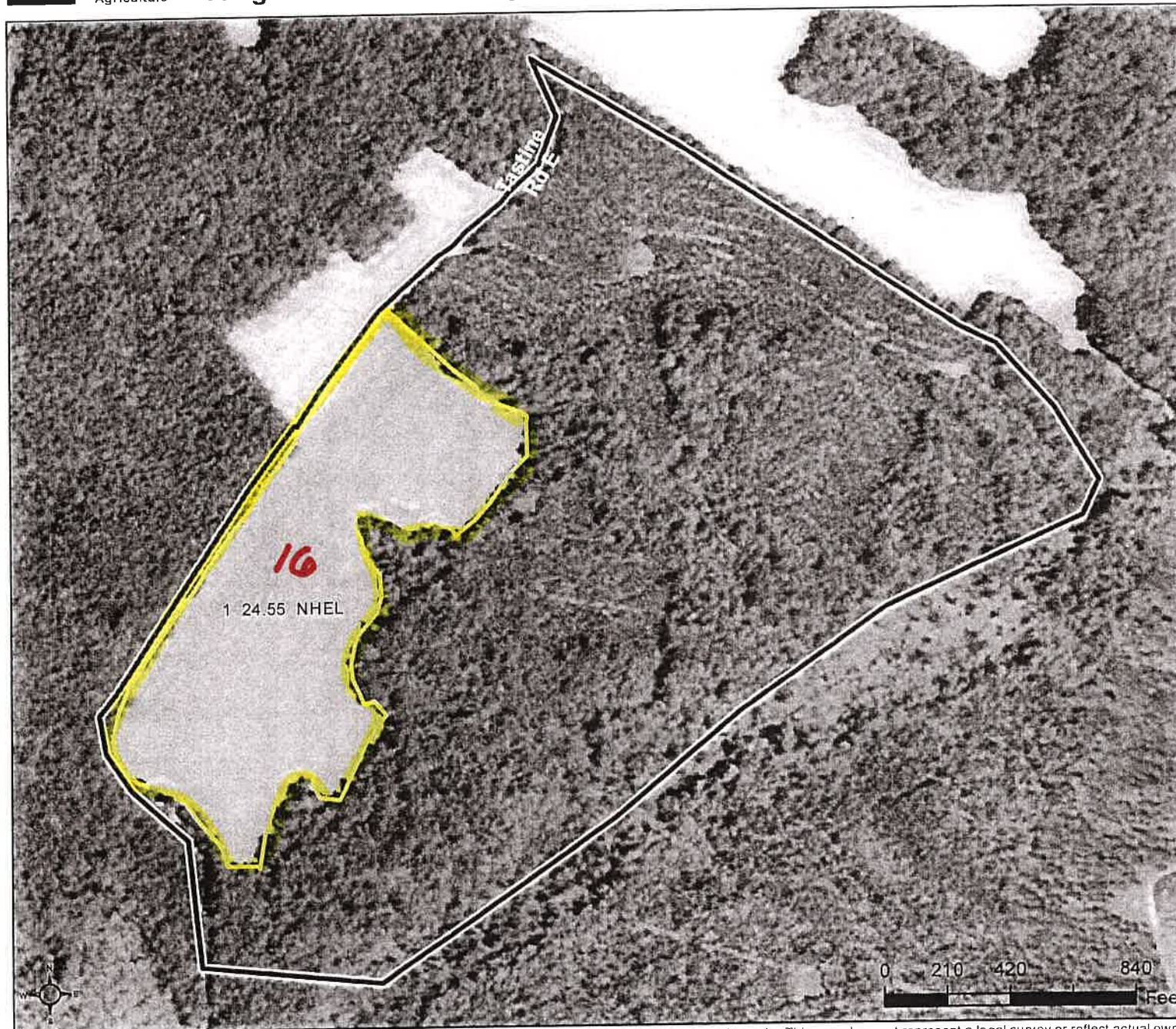
rcl_l_va057_va099_va101

Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation
Compliance Provisions

Tract Cropland Total: 24.55 acres



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United States
Department of
Agriculture

King and Queen County, Virginia

Farm 3358

Tract 283



2018 Program Year

Map Created July 31, 2017

Common Land Unit

Common Land Unit

CRP

rcl_l_va057_va099_va101

Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 92.56 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

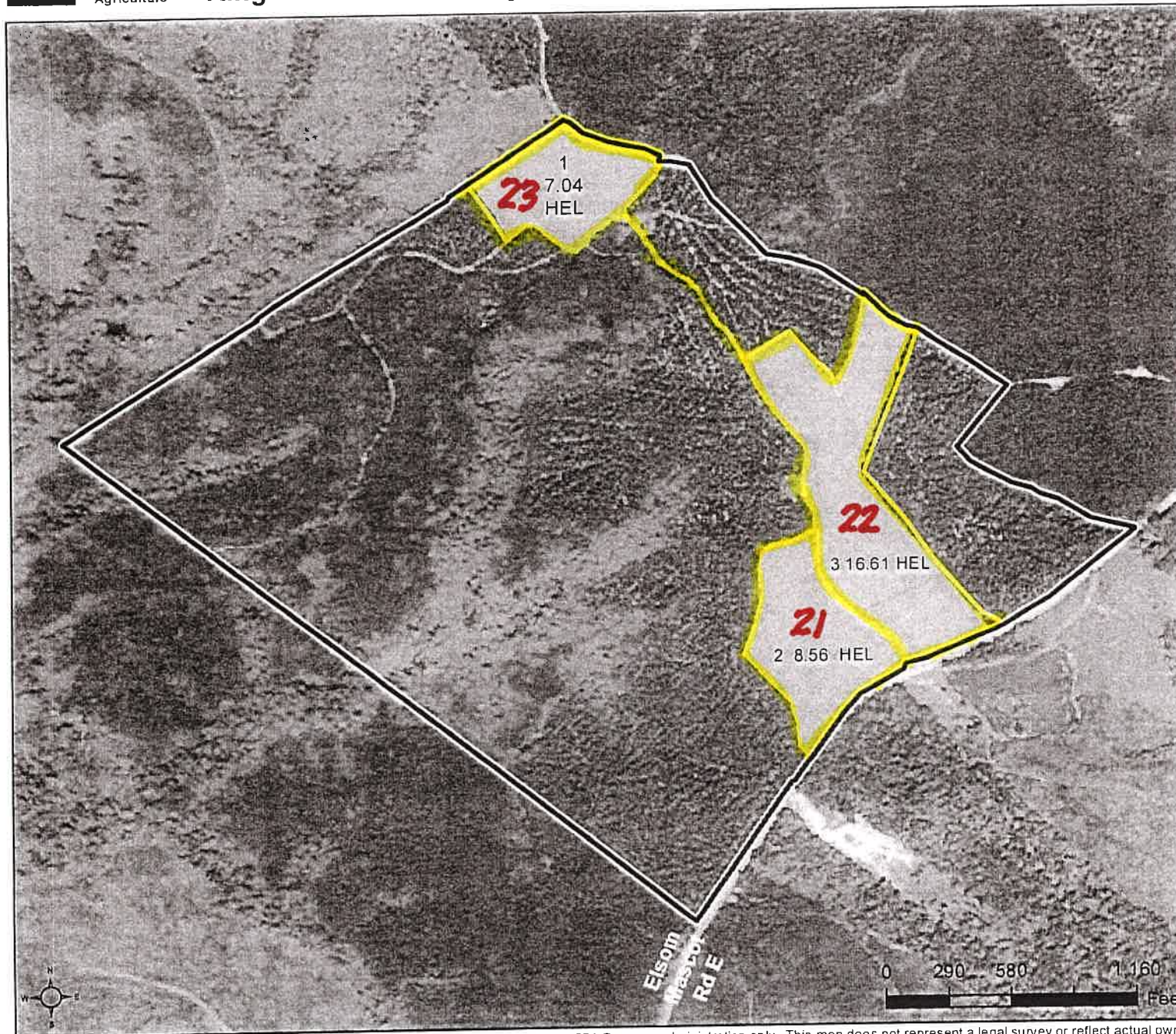


United States
Department of
Agriculture

King and Queen County, Virginia

Farm 3358

Tract 239




2018 Program Year

Map Created July 31, 2017




Common Land Unit

Common Land Unit

rcI_I_va057_va099_va101

 Tract Boundary

Wetland Determination Identifiers

-  Restricted Use
-  Limited Restrictions
-  Exempt from Conservation Compliance Provisions

Tract Cropland Total: 32.21 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



United States
Department of
Agriculture

King and Queen County, Virginia

Farm 3358

Tract 2543



2018 Program Year

Map Created July 31, 2017

Common Land Unit

Common Land Unit

rcL_I_va057_va099_va101

Tract Boundary
















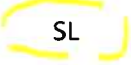


Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

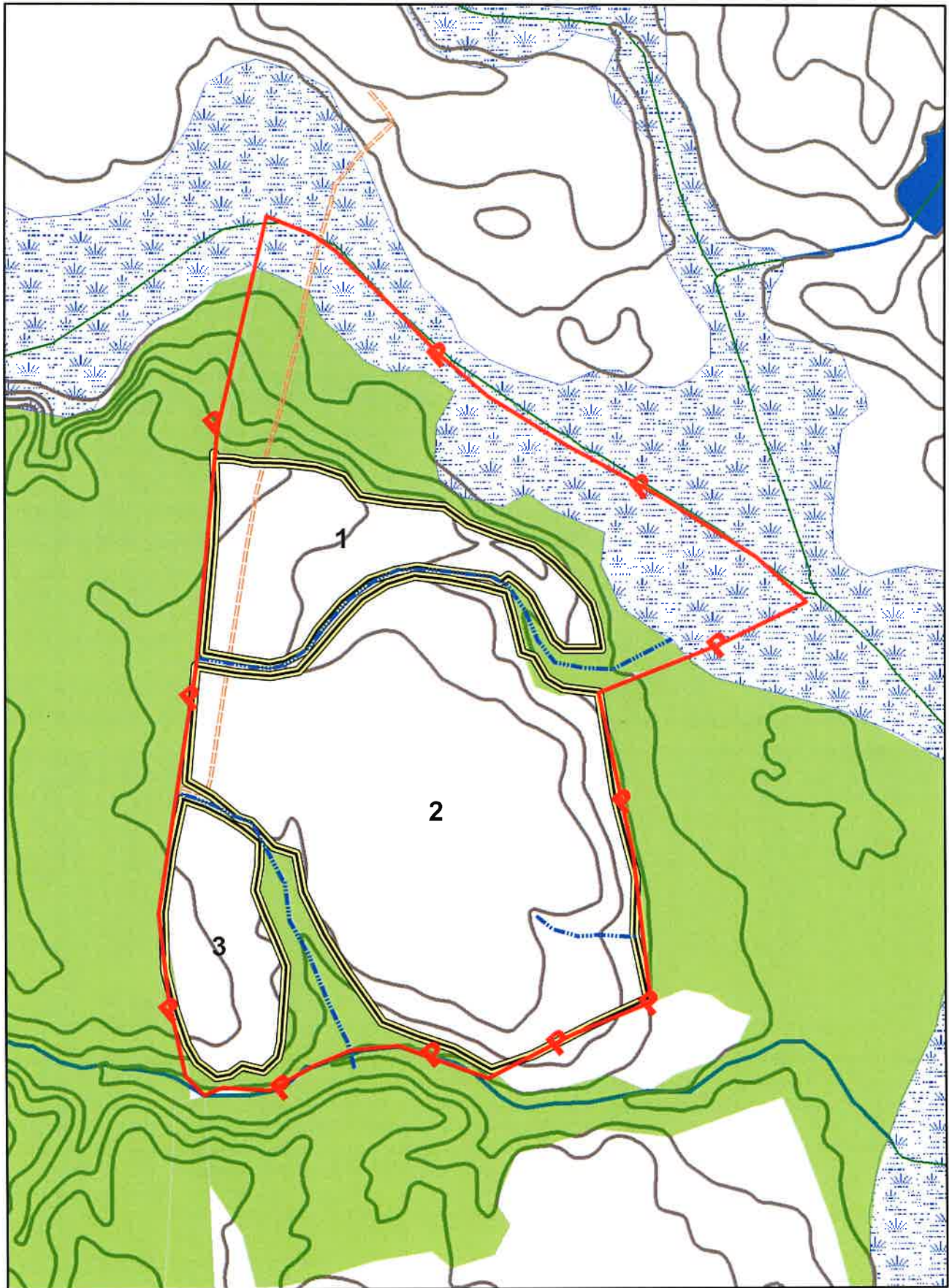
Tract Cropland Total: 86.94 acres

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Legend For Site Plan

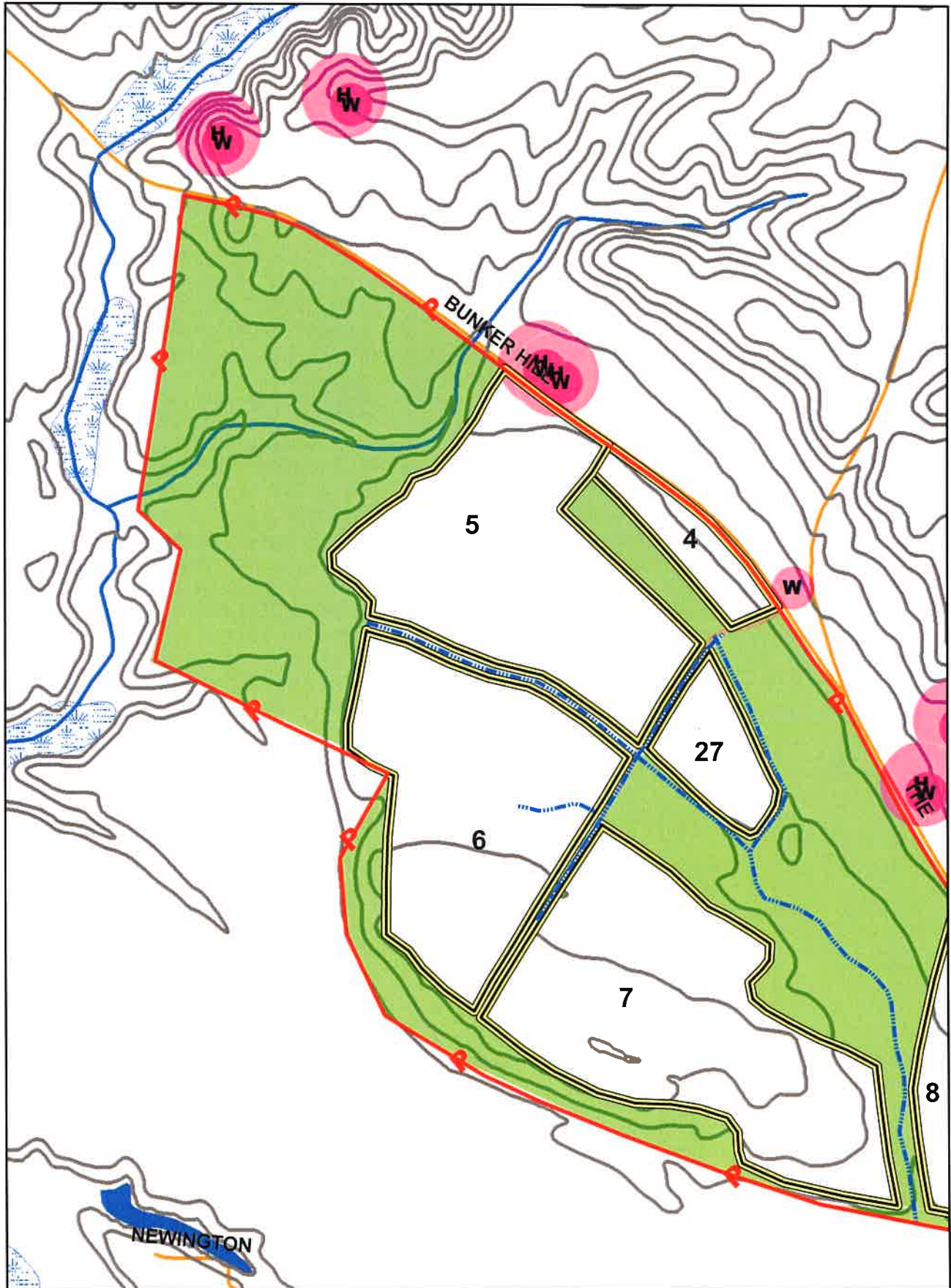
Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

*Buffer can be reduced or waived upon written consent from landowner.



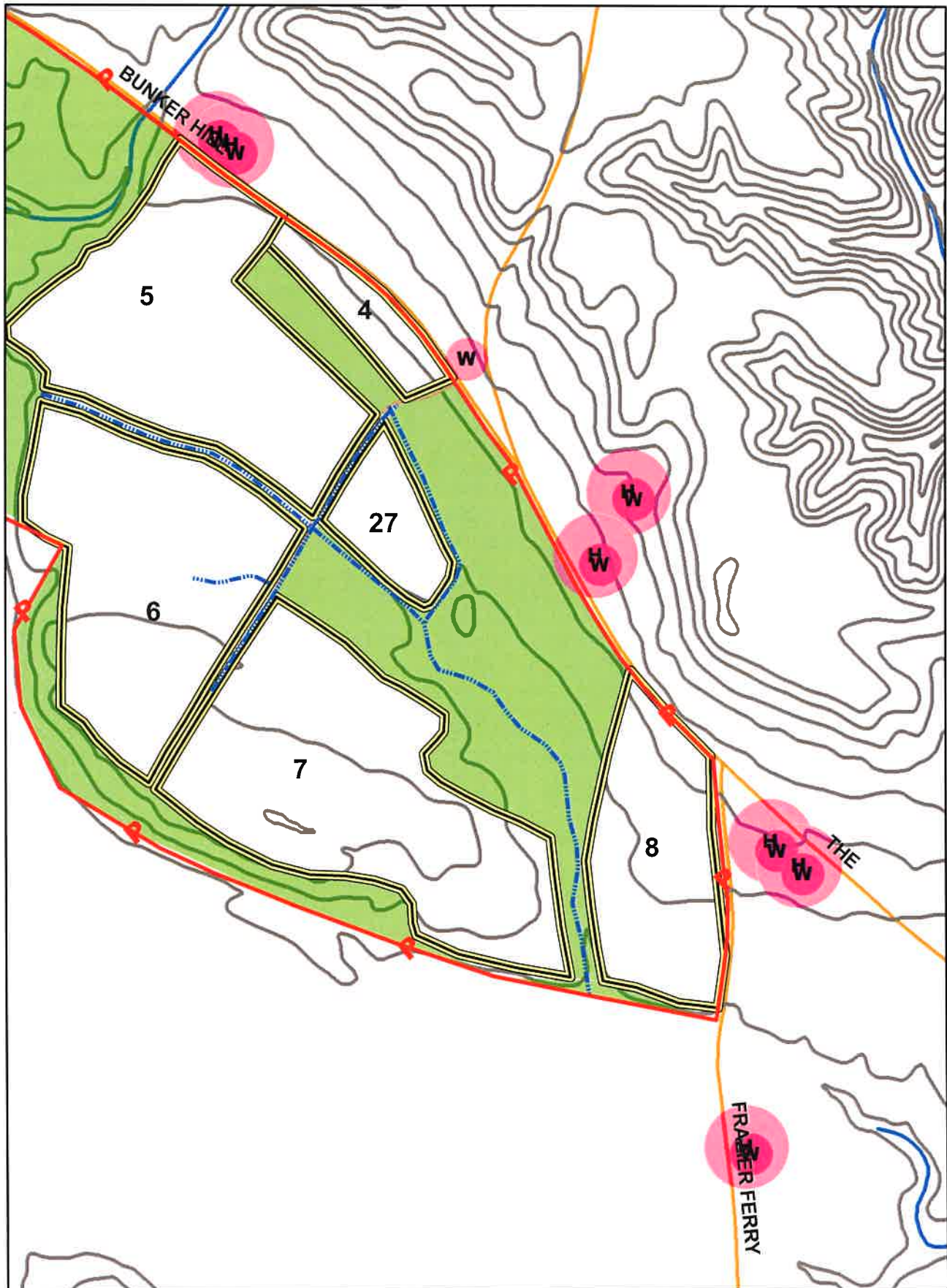
SITE PLAN

1 in = 660 feet



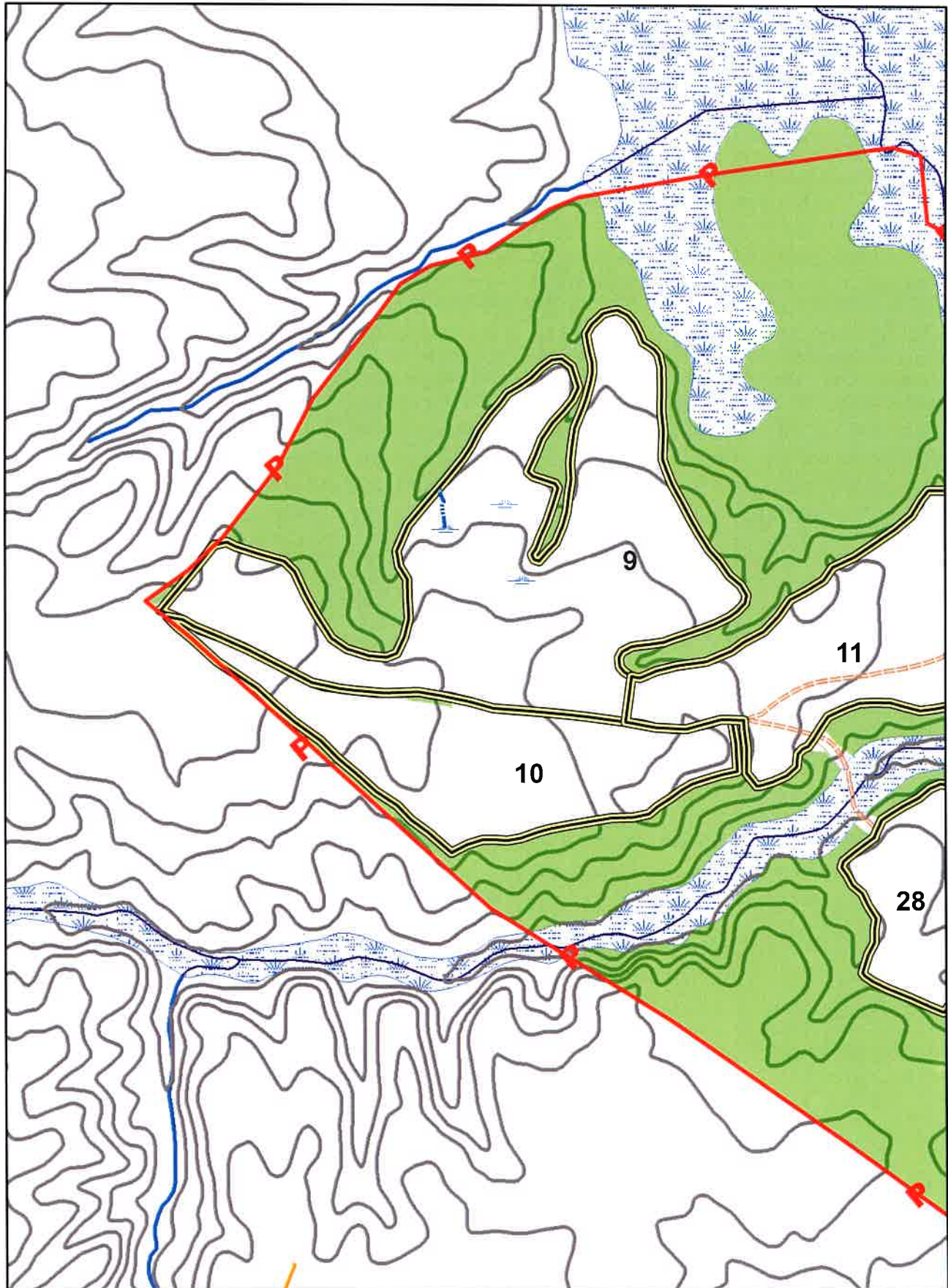
SITE PLAN

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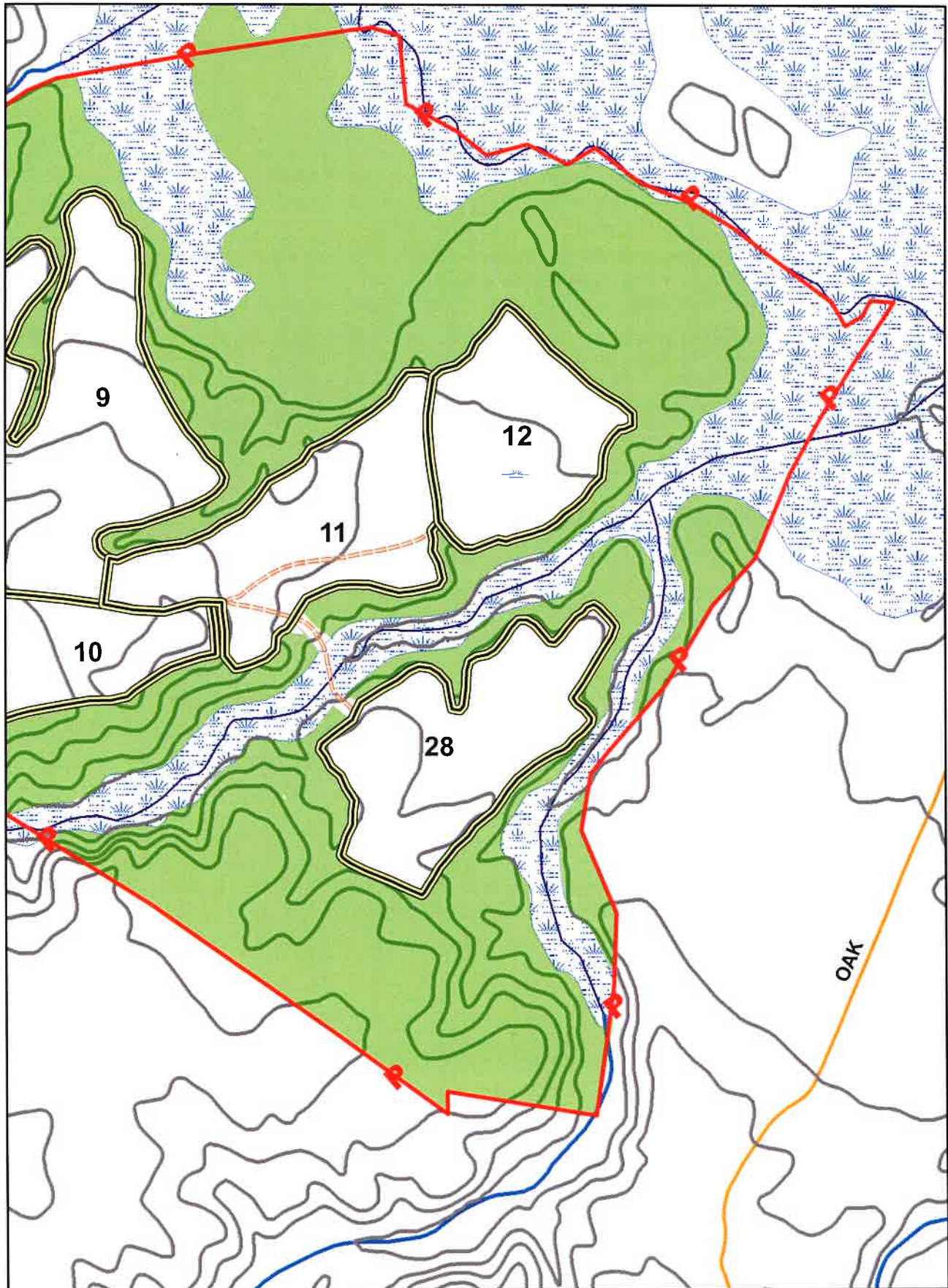
SITE PLAN

1 in = 660 feet



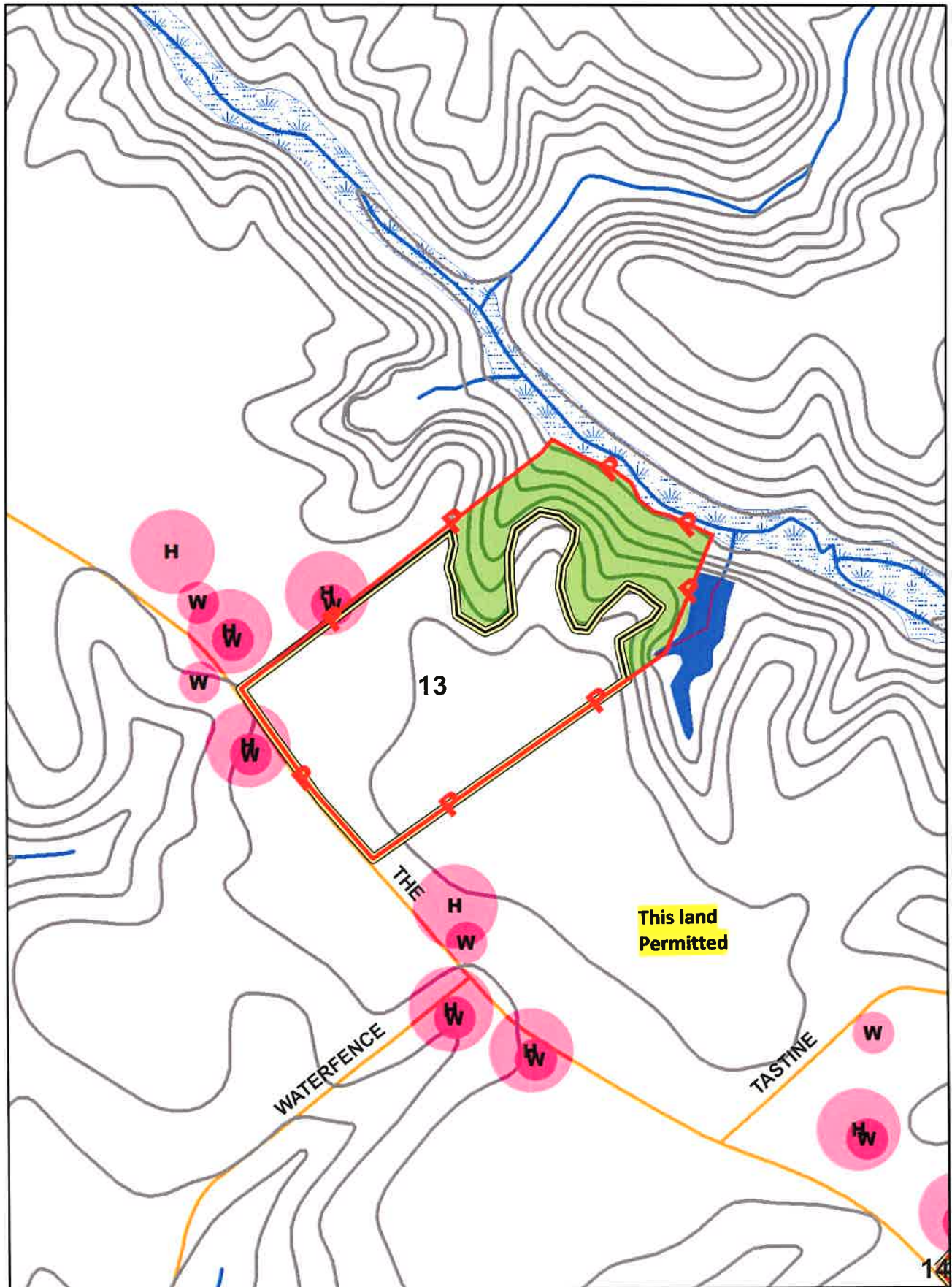
SITE PLAN

1 in = 660 feet



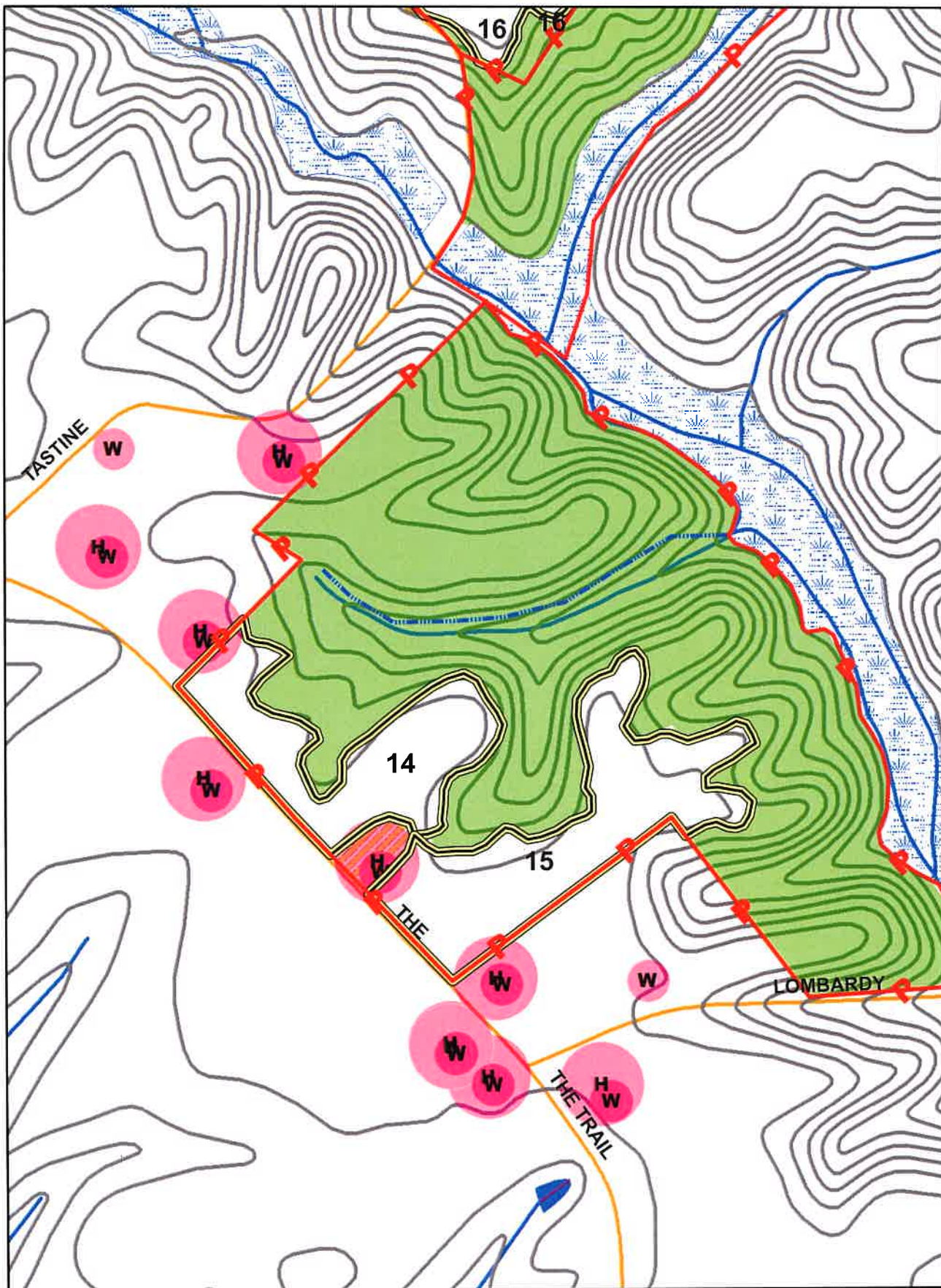
SITE PLAN

1 in = 660 feet



SITE PLAN

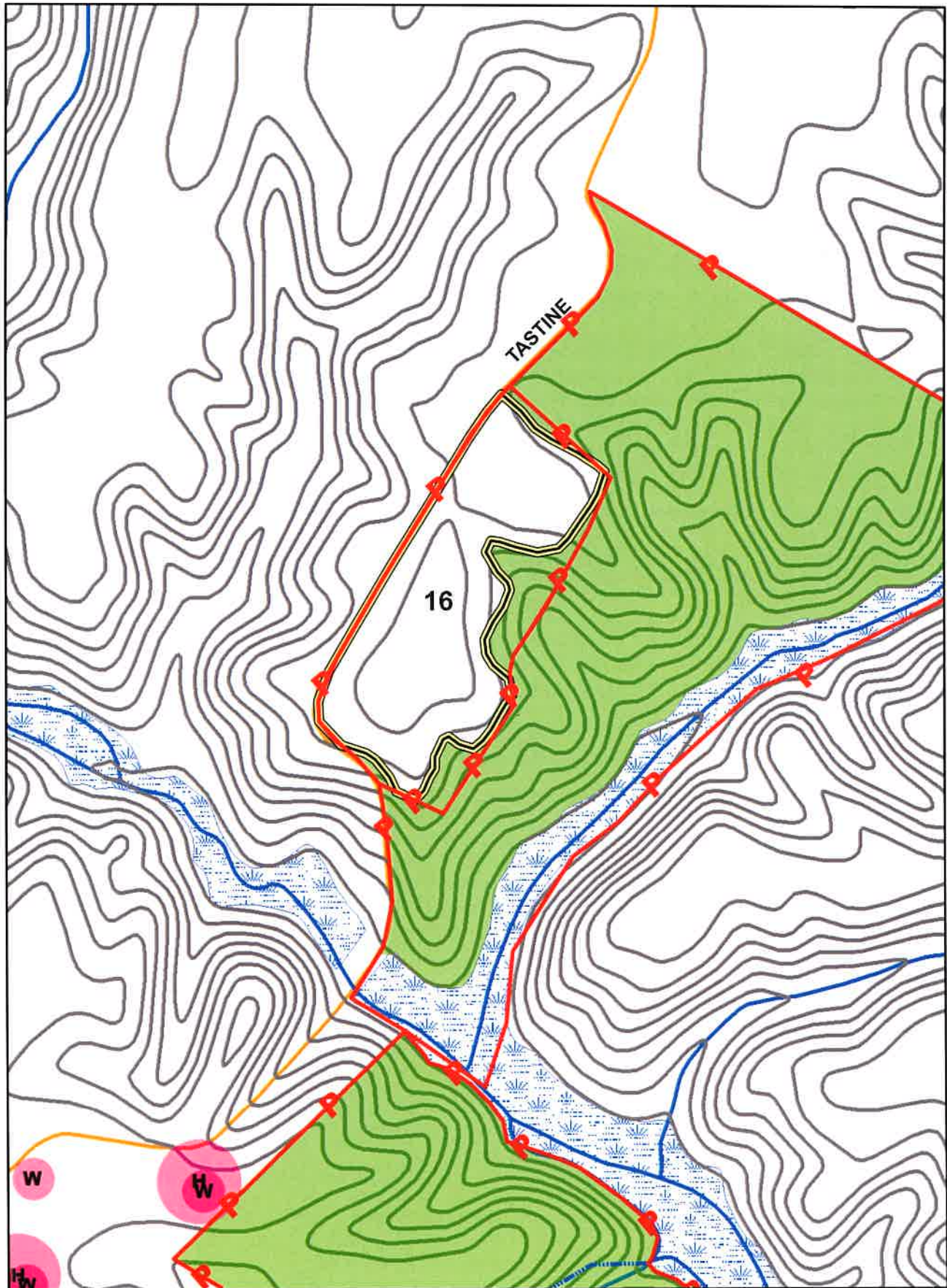
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SITE PLAN

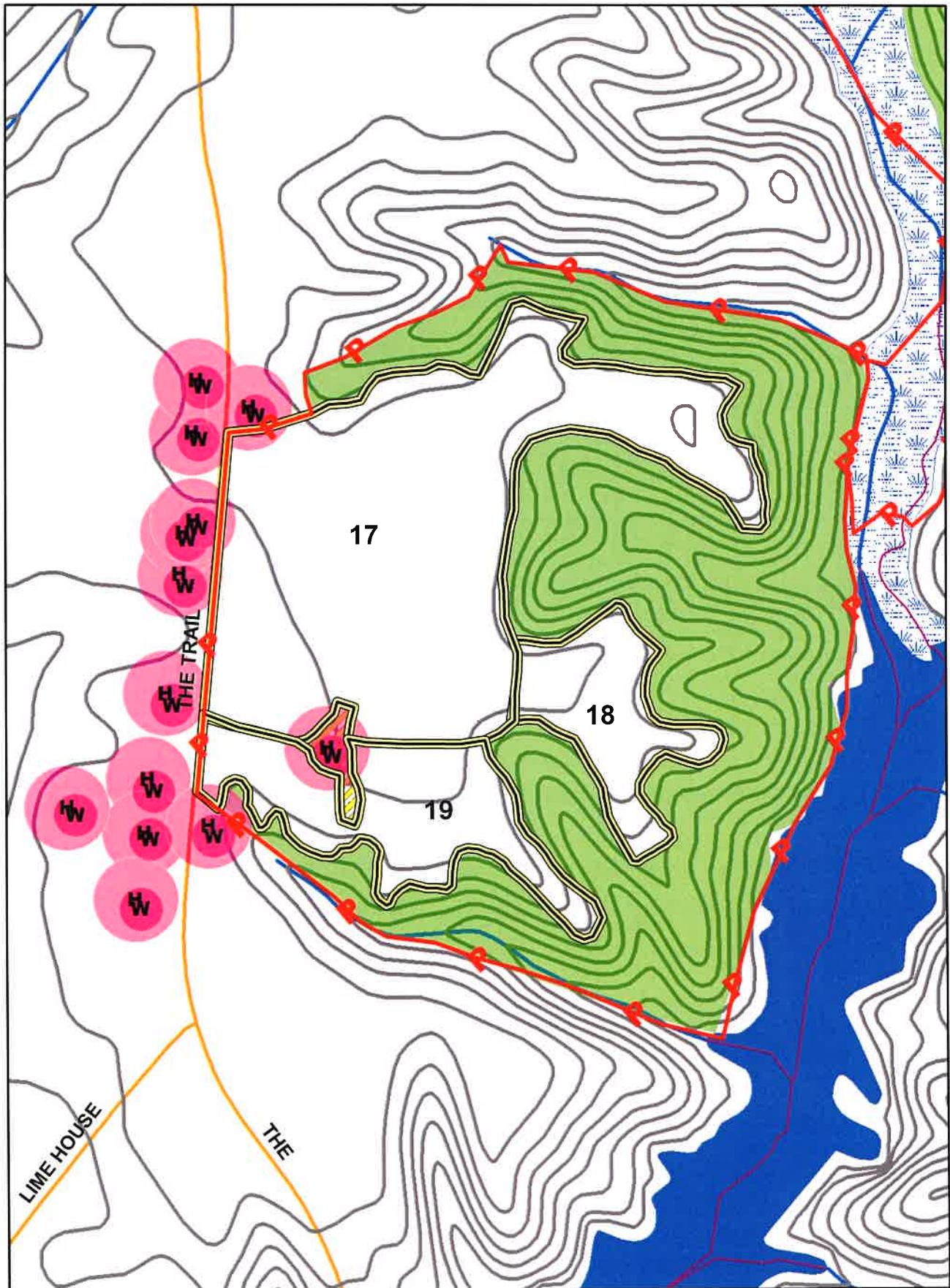
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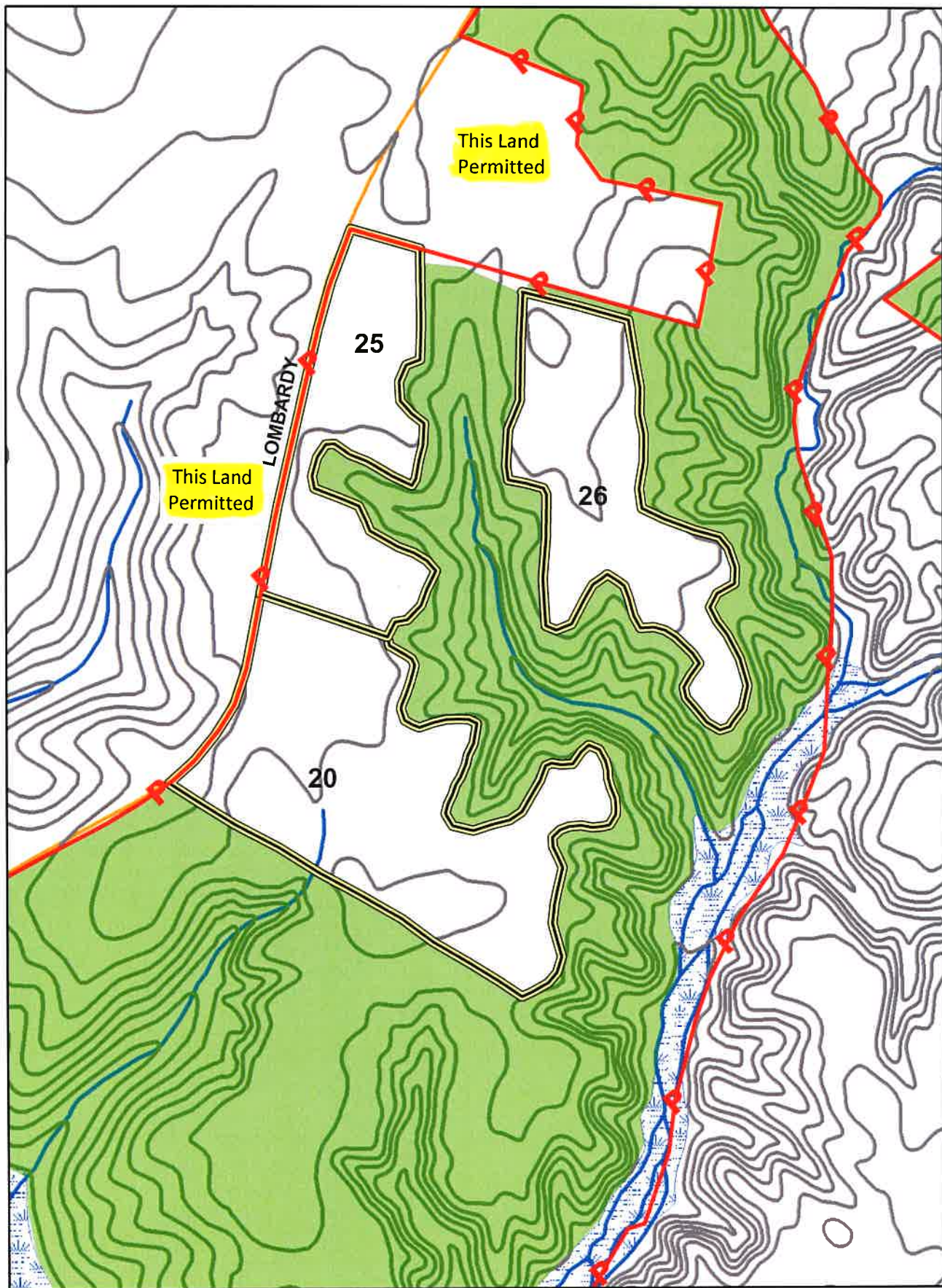
SITE PLAN

1 in = 660 feet



SITE PLAN

1 in = 660 feet



SITE PLAN

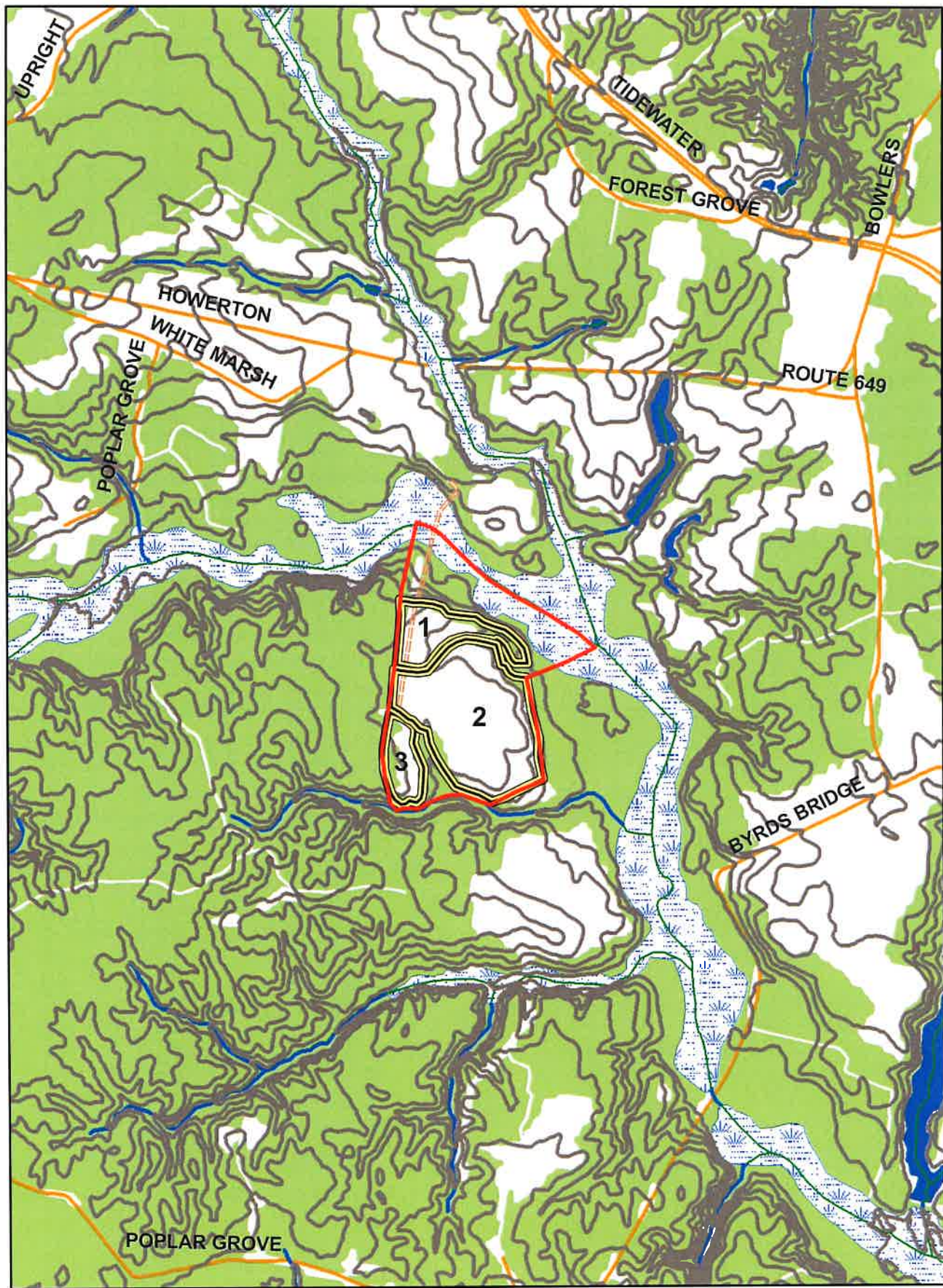
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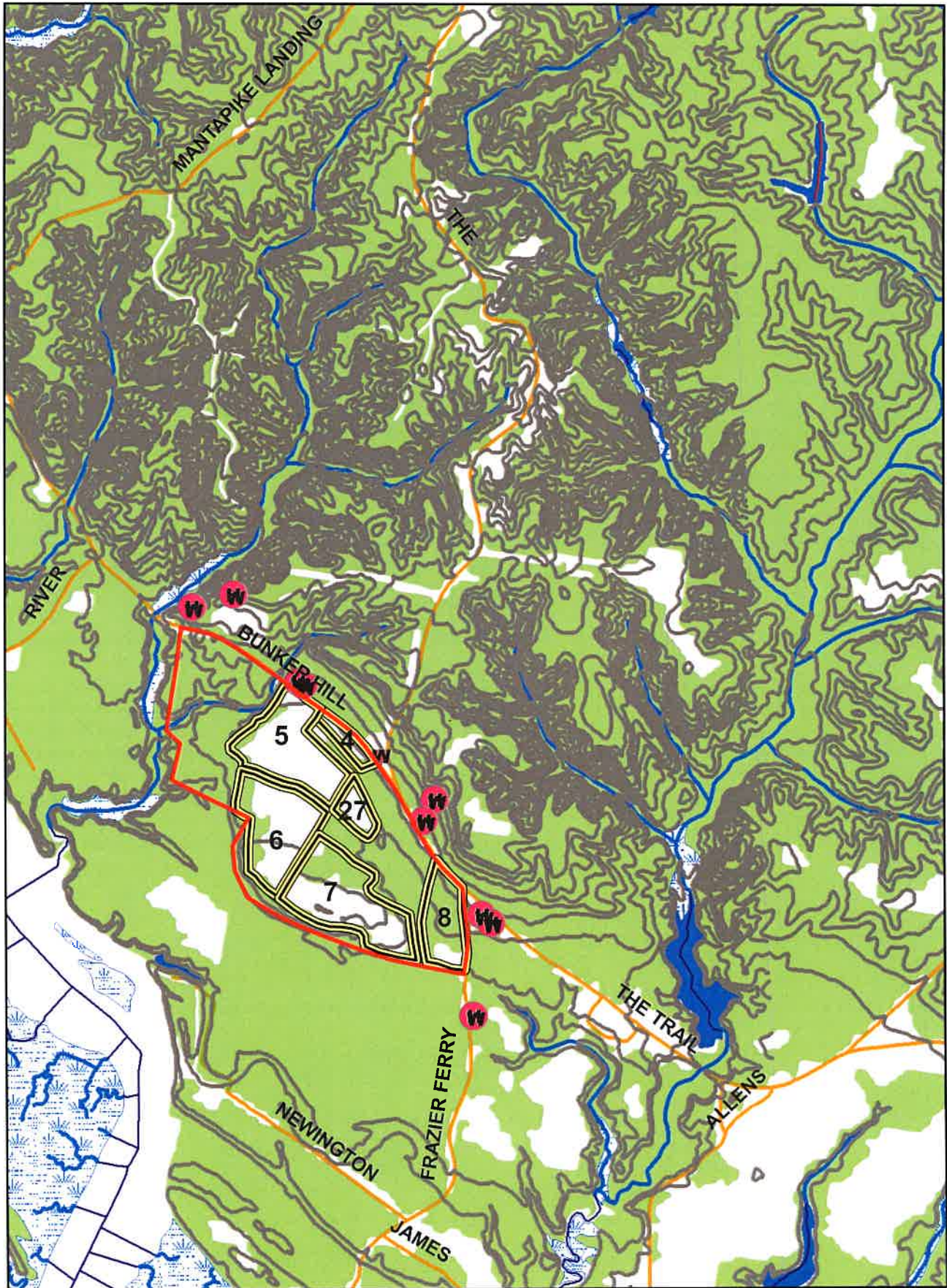
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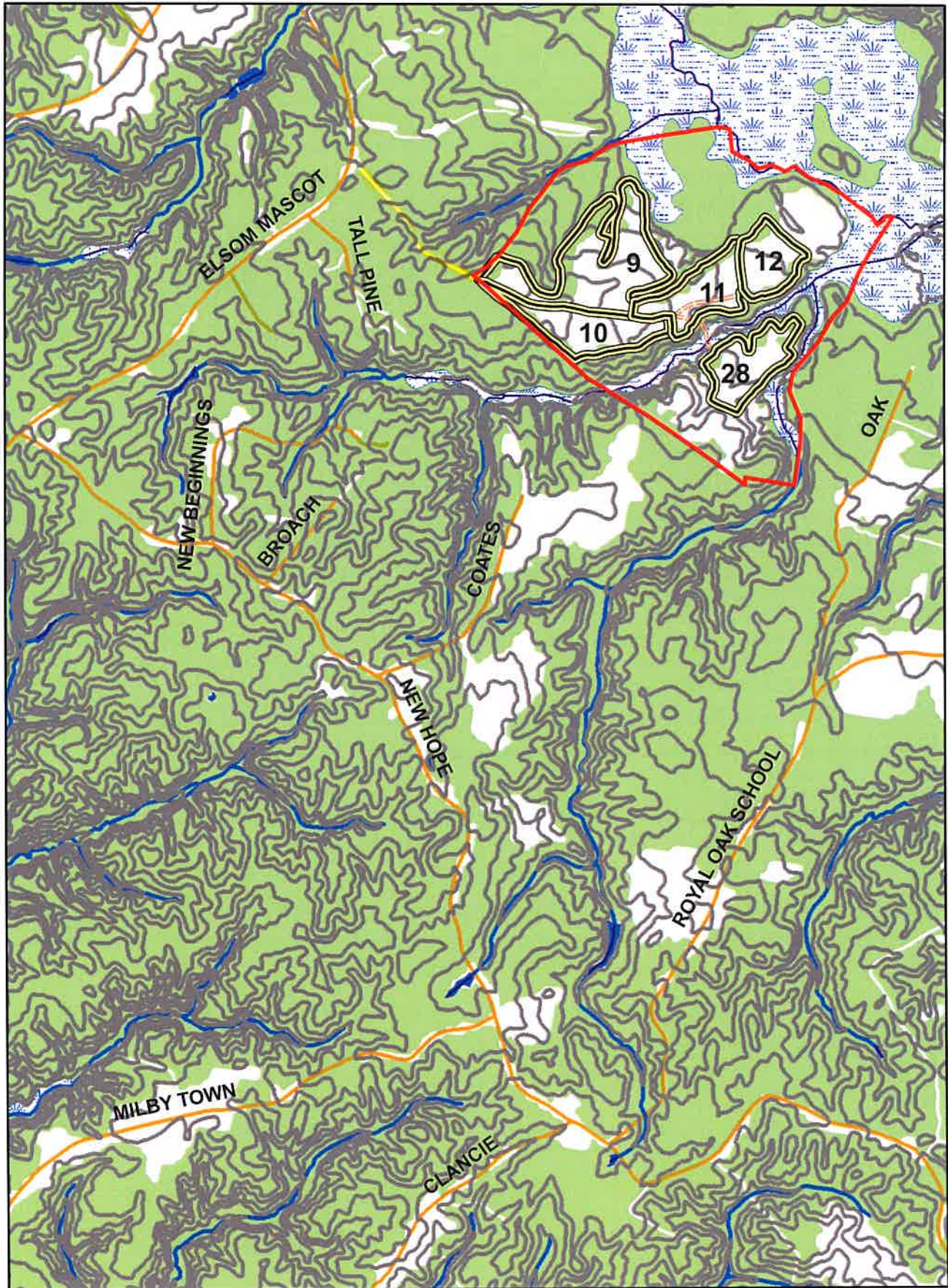
TOPOGRAPHIC MAP

1 in = 2,000 feet



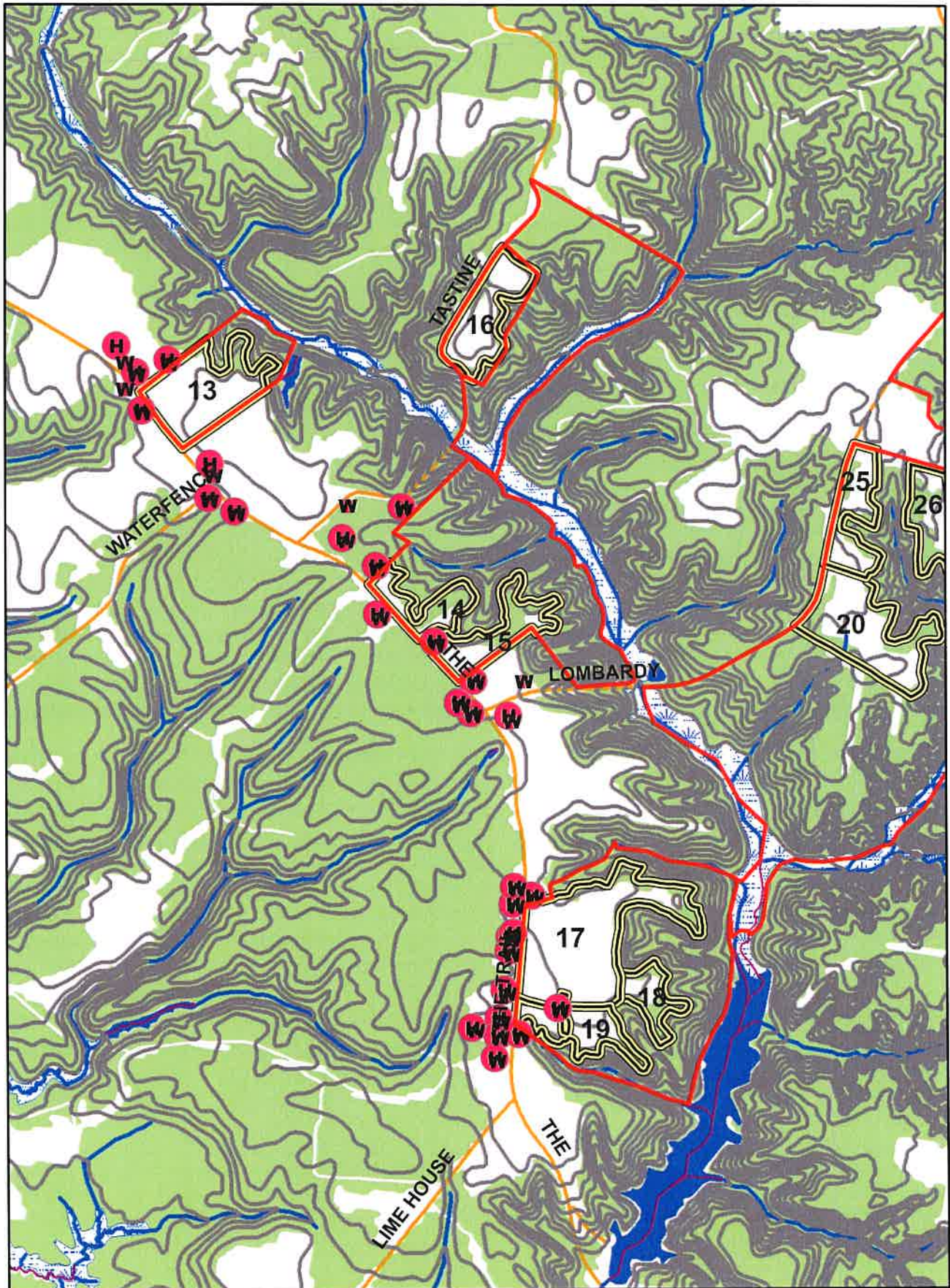
TOPOGRAPHIC MAP

1 in = 2,000 feet



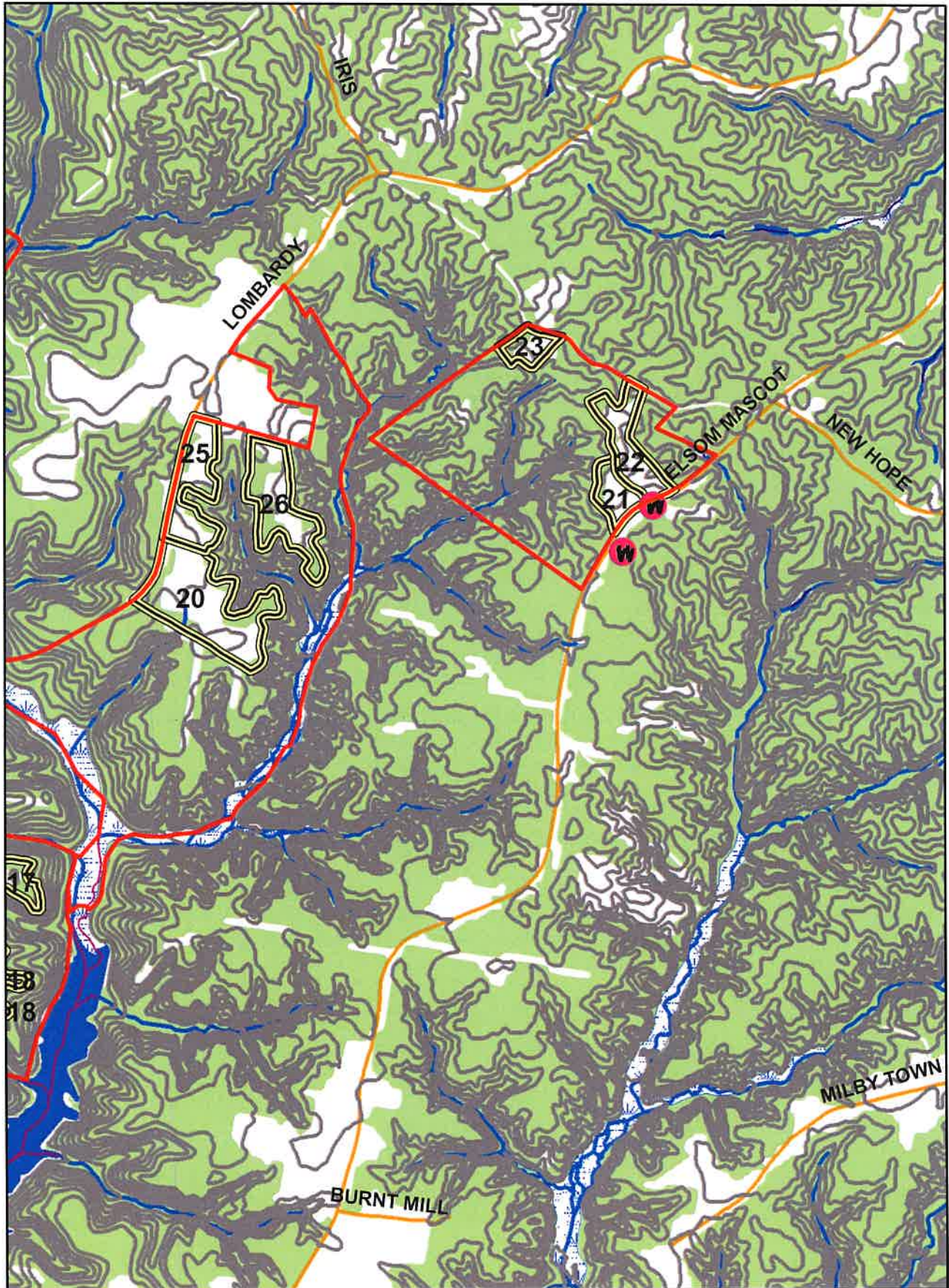
TOPOGRAPHIC MAP

1 in = 2,000 feet



TOPOGRAPHIC MAP

1 in = 2,000 feet



TOPOGRAPHIC MAP

1 in = 2,000 feet